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D. A. Bell

1987

Catalogue #122-233

Journal

D. A. Bell

1987

Catalogue #122-233

List of Localities

Douglas A. Bell
1987

Catalog

Alcatraz Island, San Francisco Bay, San Francisco Co., Calif.:
12 April, 15 May, 2 June, 13 December

Spring Ranch at Van Damme Beach State Park, Mendocino Co., California: 21 May - 23 May

Green Rock, 2 mi. NNW of Trinidad Head, Humboldt Co., California: 27 May

Sugarloaf Rock at Cape Mendocino, Humboldt Co., Calif.: 30 May

Tomales Point, 1/2 mi. N McClures Beach, Point Reyes National Seashore, Marin Co., Calif.: 5 June

Crescent City Dump, Old Mill Road, Del Norte Co., Calif.: 11-12 June

Elk River mouth, 3 mi. S Cape Blanco, Curry Co., Oregon: 14 June - 15 June

Coos Bay entrance, Coos Bay, Coos Co., Oregon: 16 June

Agate Beach Refuse Dump, 4.5 mi N Yaquina Bay, Lincoln Co., Oregon: 19 June - 21 June

Nestucca Spit, Nestucca Spit State Park, Tillamook Co., Oregon: 22 June

Bayocean Peninsula, Tillamook Bay, Tillamook Co., Oregon: 23 June -

East Sand Island, Baker Bay nr. mouth Columbia River, Clatsop Co., Oregon: 27 June - 28 June

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Catalog

Pine Island, Willapa Bay, Pacific Co., Washington:
30 June

Goose Island, Grays Harbor, Grays Harbor Co., Wash:
1 July

Whitcomb Island, Grays Harbor, Grays Harbor Co., Wash:
2 July

Port of Olympia, Olympia city, Thurston Co., Washington:
3 July

Protection Island, Jefferson Co., Washington:
6 July - 8 July

Berkeley city, Alameda Co., California:
26 January 1988

Doug Bell
1987

CATALOGUE

Alcatraz Island, S. F. Bay, CA.
April 12, 1987

122 Batrachoseps attenuatus: collected along with 123 under small cemet block located up against the wall of the north side of recreation yard. This area just north of the rec-yard wall is a small grassy shelf - my blind sits on this shelf with a view of the cistern. This shelf is shaded for most of the day.

DAB

123 Batrachoseps attenuatus: collected with 122.

DAB

126

(see next pg. for 124 125)

Chaparrell

Doug Bell
1987

CATALOGUE

132395

DAB
124

Skeleton + Left Wing + Rt wing po

Larus occidentalis

Location: Alcatraz I., SF. Co., Calif. Date: May 15, 1987

Sex: ♂ L. Testis: 1.59 X 1.25 X 1.02 Rt. Testis: 1.42 x 1.15 X 1.02 cm

Weight. 1,095 gms. Light Fat

Rt. Winglength: 41 cm

RIGHT Primary Length: 10: 28.55 7: 26.70
9: 28.80 6: 25.60
8: 28.40 5: 24.00

Tail Length: 16.20 cm

Left Tarsus: 6.52 Toes: Middle: 6.45 Outer: 6.22 Inner: 4.93 Hallux: 0.73

Bill Length: 5.86 " Length Posterior Nares: 3.87 cm

Head Length: 12.72 cm

Bill Width: 1.40 cm Bill Depth: Gonys: 2.12 cm
Ant. Nares: 2.12 cm
Post. Nares: 2.09 cm

Brood Patches: 3 Bill Color: ~~Straw~~ Orange Yellow

Eyering Color: Orange yellow.

Iris: Straw Yellow w/light pigment over bottom half. (diffuse).

Leg Color: Fleshy Pink.

Remarks: Trapped off 3-egg nest on dried grass west of Industry Building. Approx. 2x2 cm piece of distal webbing on medial side of left foot missing. Left Wing whole taken, + all Primaries, right wing. Testes + Tongue fixed in formalin. Stomach contents: fish vertebrae - saved. Several worms in fascia of lower neck. Tissues saved - in 2 tubes.

DOUG BELL
1987

CATALOGUE

172398

DAB
125

Larus occidentalis

LOCATION: Alcatraz I., S.F. Co., Calif. DATE: May 15, 1987

Skeleton + Left wing + Rt. Wing P° Asymm. 2nd window (double on 9)

SEX: ♂ Left Testis: 1.71 X 1.18 x 1.15 cm Rt. Testis: 1.64 X 1.15 X 0.92 cm

Weight: 1,085 gms. Light Fat.

Winglength (Rt): 41.80 cm

Primary Length (Right): 10: 29.0 cm 7: 27.80 cm

9: 29.60 cm 6: 25.90 cm

8: 29.1 cm 5: 24.80 cm

Tail Length: 15.90 cm

Head Length: 12.82 cm

Tarsus Length (Left): 6.28 Toes: Middle 6.10 cm Outer 6.10 cm Inner: 4.73 cm Hallux: 0.55 cm

Bill Length: 5.88 cm " Length @ Post. nares: 3.80

Bill Width (Post nares): 1.42 cm

Bill Depth: Gonys: 2.13 cm Post Nares: ~~2~~. 1.98 cm

Ant. Nares: 2.06 cm

Brood Patches: 3 Bill Color: Orange Yellow

Eyering Color: Orange Yellow

Iris color: Straw Yellow, bottom 3rd w/ light pigment (diffuse)

Leg Color: Fleshy Pink.

Remarks: Trapped off 3-egg nest on dried grass area west of Industry Building. Left Foot - inner web, at distal inner toe is a flap of webbing about 3 x 5 mm + an equal-sized divot. Outer webbing, same foot, has 2 holes in it. Tissues taken - 2 vials. Stomach: small fish vertebrae + round things 2 mm ϕ. Eyes preserved.

Doug Bell
1987

Catalogue

DAB 127

SKELETON + LEFT WING

Larus occidentalis

LOCATION: Van Damme ~~State~~ Beach State Park, Mendocino Co., Calif.

DATE: 21 May 1987

SEX: ♀ Left ovary with many ova (~15 > 2 mm ⌀).

Wt.: 1,310 gms   Fat: Heavy - bright orng-yellow

Winglength: Rt. 41.90 cm

Primary Length Rt.
10 29.4   7 27.1
9 28.6   6 24.9
8 28.5   5 23.9

Tail Length 15.8

Tarsus: 6.66 (left)   Left Toes: Outer: 6.02 middle: 6.27 Inner: 4.77 Hallux 0.61

Head Length: 12.73

Bill Length: 6.07   " @ post. nares: 3.60

Bill Width: 1.46   Bill Depth Gonys: 2.08
Ant. Nares 2.06
Post Nares 2.10

Brood Patches: 3 good ones   Bill Color: 10 YR 7/10

Eyering Color: 10 YR 7/10

Iris: 7.5 Y 8/2 Pigment even-dispersed over lower ½, some in upper ½.

Leg Color: 2.5 Y 8/4

Remarks: Stomach full of fish. Tissues in 2 vials saved.

Doug Bell
1987

Catalog

DAB 128

SKELETON + LEFT WING

Larus occidentalis

Location: Van Damme ~~State~~ Beach, State Park, Mendocino Co., Calif.

DATE: 21 May 1987

SEX: ♂ 1.92 x 1.41 x 1.26 (Left Testis) Rt. T: 1.57 x 1.11 x 1.02 cm

Wt. 975 gms Fat: Heavy Fat

Winglength: 40.2 (Right)

Primary Length Rt. 10: 27.8 7: broken tip

9: 28.3 6: 24.5

8: 27.5 5: 22.9

Tail Length: 15.1 cm

Tarsus: (Right) 6.15 cm Toes: Outer ~~4.33~~ 5.43 Inner ~~5.70~~ 4.33 middle: 5.70 Hallux: 0.36

Head Length: 11.62 cm

Bill Length: ~~5.27 cm~~ 5.40 cm Post Nares: 3.33

Bill Width: 1.26 Bill Depth: Gonys: 1.97

Ant. Nares: 1.91

Post. Nares: 1.83

Brood Patches: 3 - refeathering.

Bill Color: 10 YR 7/10

Iris Color: 7.5 Y 8/4 pigment even dispersed over lower half

Eyering Color: 10 YR 7/10

Legs: 2.5 Y 8/4

Remarks - Stomach full of small < ½ cm (crustacean) shrimps. Worms. 2 tissue vials saved.

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DAB 129 Larus occidentalis

SKEL + Rt Wing

LOCATION: SPRING ~~[illegible]~~ Ranch, ~~just~~ near Van Damme ~~[illegible]~~ Beach ~~[illegible]~~ State Park, 2 mi. S Mendocino, Mendocino Co., Calif.

DATE: 22 May 1987

SEX: ♂ 1.36 x 1.11 x 0.97 (L) + 1.28 x 1.04 x 0.93 (R)

WT: 1,200 gms. FAT: Good

WINGLENGTH: 43.4 cm (Left Wing) Chord 139.5

P° Length: 10 29.9 7 28.9

9 30.4 6 26.8

8 29.8 5 25.6

TAIL: 16.9

TARSUS: 6.58 (Left) Toes: OUT 5.95 IN 4.90 Middle: 6.54 Hallux: 0.64

Head Length: 12.95

Bill Length: 5.68 Post Nares: 3.69

Bill Width: 1.41

Bill depth Gonys: 2.16 Ant Nares: 2.12

Post. Nares: 2.07

Brood patches: 3

Bill Color: 10 YR 7/10 Gony: 5 R 5/14

Eyering Color: 7/10 10 YR Trace gony spot color in corners

Iris: 5 Y 8/6 Pigment blobs in lower 1/3.

Legs: 5 R 8/2

Remarks: Stomach full of fish, a few worms. 1 tissue vial frozen, 1 in EtOH.

Doug Bell
1987

Catalog

DAB
130
SKEL +
Rt. Wing

Larus occidentalis.

LOCATION: Spring ~~Property~~ Ranch, ~2 mi. S ~~N~~ near Van Damme Beach State Park, Mendocino, Mendocino Co., Calif.

DATE: 22 May 1987

SEX: ♀ 4 ova over 4.8 mm in diameter

Wt. ~~1,100~~ 1,030 gms Fat: Heavy fat.

Winglength: 40.5 Left Chord 134

P° Length: 10 28.5 7 26.2

9 29.5 6 25.3

8 27.5 5 23.1

Tail. 15.5

Tarsus left: 6.05 Toes: Out 5.55 Mid. 5.98 In 4.58 Hal. 0.45

Head: 12.12

Bill length: 5.24 Post Nares: 3.22

Bill Width: 1.21

Bill depth - Gonys: 2.00 Ant Nares 1.89

Post Nares: 1.85

Brood Patches: 3

Bill Color: 10 YR 7/10 Gony 5 R 5/14

Eyering Color: 10 YR 7/10 Trace gony spot color in corners

Iris Color: 5 Y 7/3 almost no pigment

Legs: 5R 8/2

Stomach full of fish. Few worms. # 1 frozen tissue vial + 1 EtOH vial.

Doug Bell
1987

Catalog

173315

DAB
131
SKEL. +
Rt. Wing

Larus occidentalis

LOCATION: Spring ~~Property~~ Ranch, near Van Damme Beach State Park, 2 mi. S Mendocino, Mendocino Co., Calif.

DATE: 22 May 1987

SEX: ♂ 1.86 X 1.07 X 1.00 (R) 1.89 X 1.17 X 1.05 (L)

Wt. 1,160 gm Fat: Heavy

Winglength: 43.2 (left) Chord 137.6

P length 10 29.8 7 28.4

9 30.4 6 26.2

8 29.1 5 24.5

Tail 16.4

Tarsus 6.20 (Right) Toes ant ~~6.34~~ 6.18 mid 6.34
Inn 5.04 Hal 0.48

Headlength: 13.03

Bill length: 5.81 Post Nares: 3.60

Bill Width: 1.35

Bill depth - Gonys - 2.~~22~~ ant Nares 2.16

Post Nares 2.02

Brood Patches: 3

Bill Color: 10 YR 7/12 Gony: 5R 5/14

Eyering Color: 10 YR 7/10 Trace gony spot color in corners

Iris: 5Y 8/6 Uneven pigment in lower half.

Legs: 5R 8/2

2 tissue vials (frozen + EtOH) Stomach full of small mussels

Doug Bell
1987

Catalog

193316

DAB
132

SKEL.
+
Lft. Wing

Larus occidentalis

LOCATION: Spring ~~[illegible]~~ Ranch, near Van Damme Beach State Park, 2 mi. S ~~[illegible]~~ Mendocino, Mendocino Co., Calif

DATE: 22 May 1987

SEX: ♂ 1.6 x 1.26 x 1.13 (L) 1.42 x 1.07 x 1.05 (R)

wt. 1,165 gms Fat. Heavy

Winglength: 41.2 (~~Lt~~ Right) Chord: 139.2 cm

p° length: 10 28.7 7 27.5

9 29.3 6 25.8

8 28.8 5 24.2

Tail: 15.8

Tarsus: 6.69 (Rt). Toes In. 5.04 Mid. 6.25 Out 6.16 Hal. 0.50.

Headlength: 13.24

Bill-length - ~~[illegible]~~ 6.12 Post Nares: 3.74

Bill Width: - ~~Gony~~ 1.29

Bill depth - Gonys 2.07 Ant Nares 2.02

Post Nares 1.94

Brood Patches. 3

Bill Color: 10 YR 7/12 Gony: 5 R 5/14

Eyering: 10 YR 7/10 Trace gony spot color in corners

Iris: 5Y 8/8 Pigment diffuse in lower half.

legs: 5 R 8/2

Remarks - ~~Left~~ Right foot - outer web - has divit in webbing.

2 vials (1 frozen + 1 EtOH) Stomach full of fish.

Doug Bell
1987

Catalog

DAB
133

SKELETON + Rt. Wing

Larus occidentalis

LOCATION: Spring ~~Property~~ Ranch, near Van Damme Beach State Park, 2 mi S Mendocino, Mendocino Co., Calif.

DATE: 5-23-87

SEX: ♀ 8 ova > 4.7 mm ; many over 1 mm.

Wt. 970 gms Fat: Good.

Winglength 141.5 (Rt) Chord: 132.8

P° length Rt			
10	28.9	7	28.5
9	29.4	6	25.8
8	29	5	24.2

Tail: 16.2

Tarsus 6.07 (left) Toes In. 4.81 Mid 6.12 Out. 5.77 Hallux 0.58

Headlength: 12.04

Bill length: 5.38

Bill Width: 1.41

Bill depth: Gonys 2.05 Ant Nares 2.01 Post Nares 1.89

Brood Patches 3

Bill Color: 10 YR 7/12

Eyering Color: 10 YR 7/10

Iris 5 Y 8/4 Pigment Color: 10 YR 3/1 Very little diffuse pigment unevenly dist. over lower 1/2

Legs: 10R 8/2

Remarks: stomach empty. One frozen & one EtOH vial saved.

Doug Bell
1987

Catalog

DAB
134

SKEL + Rt. Wing.

Larus occidentalis

DATE: May 23, 1987

LOCATION: Spring ~~Property~~ Ranch, near Van Damme Beach State Park, 2 mi. S Mendocino, Mendocino Co., Calif.

SEX. ♀ Six ova > 0.69 mm ⌀.

Wt:	850 gms	Fat:	Good
Winglength:	39 cm (Rt)	Chord	124.4
P° length (Rt)	10 27.9	7	26.5
	9 28.3	6	24.6
	8 27.5	5	23.1

Tail: 15.1

Tarsus: 6.08 (Rt) Toes In 4.66 out 5.47 Mid 5.95 Hal 0.55

Headlength: 11.68

Bill length: 5.31

Bill width: 1.18

Bill depth Gonys: 1.97 Ant Nares: 1.96

Post Nares: 1.88

Brood Patches: 3

Bill Color: 10 YR 7/10

Eyering Color: 10 YR 7/10

Iris: 5Y 8/6 Very little diffuse pigment.

Legs: 7.5R 8/2

Remarks: Stomach empty. One tissue vial (frozen).

Doug Bell
1987

Catalog

DAB 135 — Larus occidentalis.

LOCATION: Spring ~~Property~~ Ranch, ~~Se.~~ near Van Damme ~~St.~~ Beach State Park, 2 mi. S Mendocino, Mendocino Co., Calif.

DATE: 23 May 1987

SKEL. + Rt. WING

SEX: ♂ L 1.36 X 1.02 X 0.93 (R) 0.91 X 1.05 X 0.89

wt. 1,200 gms Fat: Good

Winglength: 41.8 cm (Left) Chord: 138.8 cm

P° - length 10: 29.3 7 28.7

9: 30.2 6 26.8

8 - 29.8 5 25.0

Tail: 16.7

Tarsus: 6.57 (~~lef~~ left) Toes: Out 5.94 In 4.73 mid: 6.27 Hal: 0.66

Head length 13.00

Bill length: 5.83

Bill width: 1.29

Bill depth Gonys: 2.15 Ant Nares: 2.07

Post Nares: 1.91

Brood Patches: 3

Bill color: 10 YR 7/4

Eyering Color: 10 YR 7/10

Iris: destroyed.

Legs: 10 YR 8/4

Remarks: 2 frozen tissue vials saved. Few worms. Stomach full of shrimp (~~2.0 cm~~ 1.5 cm)

Doug Bell
1987

Catalog

DAB 136

Larus occidentalis

Location : ~~Birdrock~~ Green Rock, 2 mi. NNW Trinidad Head, Trinidad Head, Humboldt Co. CA.

Date : May 27, '87

Sex ♀ 14 ova ≥ 0.5 cm + 1 yolk 3.18 cm ϕ + 3 edamentous ova ; 1 Egg (soft membranes, no shell) in oviduct

Wt : 1160 g   Fat : Light

Winglength Left : 40.5 cm   chord

Primary Length : 10 : 28.7 cm   7 : 26.4 cm
9 : 29.1 cm   6 : 24.5 cm
8 : 28.5 cm   5 : 23.4 cm

Tail : 15.7 cm   trace pigment in shafts

Tarsus : right 5.91 cm   Toes out : 5.79   mid : 6.04
in : 4.48   Hal 0.57

Headlength : 12.09 cm

Bill length : 5.65 cm   post nares : 3.53 cm

Bill width : 1.27 cm

Bill depth : Gonys : 2.02 cm   Ant Nares : 1.98 cm
Post Nares : 1.86 cm

Brood patches : 3

Bill color : 10 YR 7-10

Eyering color : 10 YR 7-10 some gony color in rear corner

Irides : 5Y 8-2 very litte pigment diffuse in lower 1/3.

Legs : 5R 8-2

Remarks : 2 frozen + 1 EtOH vial. Stomach empty except for a few small stones + mollusc shells.

Doug Bell
1987

Catalog

132248

DAB 137

Larus occidentalis

Location : ~~Birdrock~~ Green Rock, 2 mi. NNW of, Trinidad Head Humboldt Co. CA.

Date : May 27 ' 1987

Sex : ♂ 1.41 x 1.04 x 0.83 (L) ; R: 1.02 x 0.85 x 0.69

Wt : 1130 g Fat Moderate

Wing length : left : 42.1 cm chord :

Primary length			
10 : 29.4 cm		7 : 28.2 cm	
9 : 30.04 cm		6 : 26.7 cm	
8 : 30.0 cm		5 : 24.9 cm	

Tail : 15.5 cm trace pigment in shafts

Tarsus left : 6.28 cm out : 6.[illegible] cm in : 4.75 mid : 6.38 Hal : 0.57

Headlength : 12.24 cm

Bill length : 5.79 cm post. Nares : 3.59 cm

Bill width : 1.26 cm

Bill depth : Gonys : 2.02 cm Ant Nares 1.98 cm Post Nares 1.93 cm

Brood patches : 3

Bill color : 10 Y R 7-10

Eyering color : 10 Y R 7-10

Irides : 5 Y 8-2 diffuse pigment in lower ½

Legs : 2.5 R 8-2

Remarks : 1 frozen + 1 EtOH tissue vial. Stomach empty except for a few stones + remains of mussel shells. Patches of oil on feathers.

Doug Bell
1987

Catalog

DAB Larus occidentalis

138 Location: ~~Birdrock~~ Green Rock, 2 mi NNW of Trinidad Head, Humboldt Co., CA.

Date: May 27, 1987

Sex: ♀ 10 ova > 0.42 cm d.

Wt: 1200 g   Fat: Good

Winglength: right 40.9 cm   Chord: 134 cm

Primary length 10: 28.7 cm   7: 26.7
9: 29.0   6: 24.8
8: 28.5   5: 23.0

Tail: 15.6 cm   trace pigm. in shafts

Tarsus: right 6.25 cm   out: 5.79 cm   in: 4.62 cm   mid: 6.06   Hal: 0.50

Headlength: 11.85 cm

Bill length: 5.38 cm   post. Nares: 3.45 cm

Bill width: ~~[illegible]~~ 1.23 cm

Bill depth: Gonys: 2.0 cm   Ant. Nares: 1.9 cm   Post. Nares: 1.78 cm

Brood patches: 3

Bill color: 10 YR 7-12

Eyering color: 10 YR 7-10 Gony color in both corners

Irides: 5 Y 8-3 even pigment in lower ½

Legs: 2.5 Y 8-2

Remarks 2 frozen & 1 EtOH vial. Stomach & crop full of fish.

Doug Bell
1987

Catalog

DAB Larus occidentalis

139 Location: ~~Birdrock~~ Green Rock, 2 mi. NNW of Trinidad Head, Humboldt Co., CA.

Date: May 27, 1987

Sex: ♀ 7 ova > 0.40 mm

Wt: 990 g Fat: Good

Winglength: ~~right~~ left 40.8 cm Chord: 131.5 cm

Primary length 10: 28.6 cm 7: ~~broken~~ 27.6

9: 27.2 6: ~~broken~~ 25.7

8: ~~[illegible]~~ 25.2 molt 5: broken 23.2

Tail: 16.1 cm trace pigment in shaft

Tarsus: right 6.60 cm out 5.66 in ~~4.6~~ mid 6.02 Hal 0.39

Headlength: 12.28 cm

Bill length: 5.48 post. Nares: 3.25

Bill width: 1.19

Bill depth: Gonys: 2.02 Ant. Nares: 2.0 Post. Nares: 1.87

Brood patches: 3 middle refeathering

Bill color: 10 YR 7-10

Eyering color: 10 YR 7-10 gony color in both corners

Irides: 5Y 8-3 uneven pigment in lower ½

Legs: 5R 8-2

Remarks: Stomach empty except for a few stones. One worm. 2 frozen + 1 EtOH tissue vials.

Doug Bell
1987

Catalog

192281

DAB Larus occidentalis

140 Location: ~~Birdrock~~ Green Rock, 2 mi. NNW of Trinidad Head, Humboldt Co., CA.

Date: May 27, 1987

Sex: ♂ L: 1.42 x 1.21 x 0.93 R: 1.19 x 0.94 x 0.77

Wt: 1310 g Fat: Good

Winglength: right 41.4 cm Chord: 135.0 cm

Primary length: 10: 28.3 cm 7: 27.8 cm

9: 29.0 cm 6: 25.9 cm

8: 28.9 5: 24.2 cm

Tail: 16.1 cm trace pigment in shafts

Tarsus: ~~right~~ left 6.12 cm out 5.71 cm in 4.37 cm mid 6.28 Hal 0.58

Headlength: 13.22 cm

Bill length: 6.21 post. Nares: 3.94

Bill width: 1.40

Bill depth: Gonys: 2.13 Ant. Nares 2.04 Post. Nares 1.96

Brood patches: 3 middle refeathering

Bill color: 10 YR 7-10

Eyering color: 10 YR 7-10

Irides: 5 Y 8-3 diffuse pigment lower 1/2

Legs: 10 YR 8-2

Remarks: 1 frozen + 1 EtOH vial. stomach with remains of small fish vertebrae (< 0.5 cm) and meal.

Doug Bell
1987

Catalog

DAB 141

Larus occidentalis

Location: ~~Birdrock~~ Green Rock, 2 mi. NNW of Trinidad Head, Humboldt Co., CA.

Date: May 27, 1987

Sex: ♂ L: 1.89 X 1.25 X 1.17 R: 1.42 X 1.18 X 1.13

Wt: 1260 g Fat: Moderate

Winglength ~~left~~: 42.4 cm Chord: 137.5 cm

Primary length: 10: ~~4~~29.6 cm 7: 28.4

9: 30.3 6: 26.2

8: 29.6 5: 24.7

Tail: 16.4 cm trace pigment in shafts

Tarsus: left: 6.58 cm out: 6.17 in: 4.67 mid 6.6 cm Hal 0.5 cm

Headlength: 12.94 cm

Bill length: 6.07 cm post. Nares 3.21

Bill width: 1.40 cm

Bill depth: Gonys: 2.22 Ant. Nares: 2.46 Post. Nares: 2.04

Brood patches: 3

Bill color: 10 YR 7-10

Eyering color: 10 YR 7-10 gony color in rear corner

Irides: 5 Y 8-2 diffuse pigm. lower 2/3

Legs: 5 R 8-2

Remarks: Stomach empty; 2 frozen vials, 1 EtOH.

Doug Bell 1987 — Catalog

172283

DA13 *Larus occidentalis*

142 Location: ~~Birdrock~~ Green Rock, 2 mi. NNW of Trinidad Head, Humboldt Co., CA.

Date: May 27, 1987

Sex: ♂ L: 1.70 X 1.40 X 0.97 R: 1.60 X 1.29 X 1.01 cm

Wt: 1230 g Fat: Good

Winglength: left 42.6 cm Chord: 135.5 cm

Primary length 10: 29.8 cm 7: 27.4

9: 30.3 6: 25.9

8: 29.5 5: 24.2

Tail: 16.4 cm trace pigment

Tarsus: left 6.51 cm Out: 6.33 mid: 6.37

in: 4.96 Hal: 0.58

Headlength: 13.07 cm

Bill length: 6.03 cm post. nares: 3.883

Bill width: 1.34 cm

Bill depth: Gonys: 2.21 cm Ant. Nares: 2.14

Post. Nares: 2.01

Broodpatches: 3

Bill color 10 YR 7-12

Eyering color: 10 YR 7-12 Gony color in both corners

Irides 2.5 Y 8-4 uneven pigment lower 1/3

Legs 5R 8-2

Remarks 1 frozen + 1 EtOH vial. Stomach empty.

Doug Bell
1987

catalog

172389

DAB Larus occidentalis

143 Location: ~~Birdrock~~ Green Rock, 2 mi. NNW of Trinidad Head, Humboldt Co., CA.

Date: May 27, 1987

Sex: ♂ T: L: 1.73 x 1.50 x 1.13 R: 2.21 x 1.43 x 1.17

Wt: 1230 g Fat: Good

Winglength: right 40.5 cm chord: 129 cm

Primary length: 10: ~~[illegible]~~ 27.8 cm 7: 27.1

9: 28.4 6: 25.1

8: 28.5 5: 23.0

Tail: 15.9 cm trace pigment

Tarsus: left: 6.05 cm out: 5.62 cm mid: 6.02 cm
in: 4.50 cm Hal: 0.47 cm

Headlength: 12.51 cm

Billlength 4.93 cm post nares: 3.67 cm

Bill width 1.46 cm

Bill depth: Gonys: 2.12 cm Ant. Nares: 2.05
Post. Nares: 2.03

Brood patches: 3

Bill color: 10 YR 7-10

Eyering color: 10 YR 7-10 Gony color rear corner

Irides: 5Y 8-3 uneven pigment lower ½.

Legs 5R 8-2

Remarks: 1 frozen + 1 EtOH vial. Stomach + crop full of fish - small minows + a couple 7" surf fish.

Doug Bell
1987

Catalog

DAB
144
SKELETON + Left Wing.

Larus occidentalis

Location: Sugarloaf Rock at Cape Mendocino, Humboldt Co., CA.

Date. May 30, 1987

Sex: ♀ 10 ova ≥ 0.45 ϕ

Wt. 900g Fat: Heavy

Winglength: left: 39.9 cm Chord: 1x31 cm

Primary length: 10: 28.4 7: 27.0
9: 29.0 6: 25.3
8: 28.4 5: 23.8

Tail : 15.7

Tarsus : right: 6.11 out: 5.16 in: 4.15
midd: 5.5 Hal: 0.48

Headlength : 11.75

Bill length : 5.21 post. nares: 3.26

Bill width : 1.22

Bill depth : Gonys : 1.92
Ant. nares : 1.82
post. nares : 1.72

Brood patches : 3

Bill color : 10 Y R 7-12

Eyering color : 10 Y R 7-10

Gony pigment in rear corner

Irides : 5Y 8-4

scattered diffuse pigment lower ½.

Legs: 5R 8-3

Remarks: left nare enlarged towards head.

2 vials - 1 frozen, 1 EtOH. Few worms

Stomach empty except for 1 small white mollusc shell.

Doug Bell
1987

Catalog

DAB 145 SKELETON + WING

Larus occidentalis

Location: Sugarloaf Rock at Cape Mendocino, Humboldt Co., CA.

Date: May 30, 1987

Sex: ♂ L: 1.64 x 1.12 x 0.92 R: 1.40 x 1.02 x 1.03

Wt: 1190g Fat: Good

Winglength: right: 43.4cm, chord: 144 cm

Primary length: 10: 29.5cm 7: 28.0
9: 30.2 6: 26.4
8: 29.8 5: 24.5

Tail: 15.7

Tarsus: right: 6.69 out: 6.32 in: 5.02 mid: 6.39 Hal: 0.43

Headlength: 12.85

Bill length: 5.88 post. nares: 3.53

Bill width: 1.23

Bill depth: Gonys: 2.20
Ant nares: 2.15
Post nares: 2.06

Brood patches: 3 (thumb-size)

Bill color: 10YR 7-10

Eyering color: 10YR 7-10

Irides: 5Y 8-3

Scattered diffuse pigment lower 1/3.

Legs: 2.5Y 8-2

Remarks: 2 vials - 1 frozen, 1 EtOH. Good worm infestation, stomach 1/2 full w/ fish ribs & vertebrae.
Dark feather shafts on tail.

Doug Bell
1987

Catalog

DAB Larus occidentalis

146 Location : Sugarloaf Rock at Cape Mendocino, Humboldt Co., CA.

SKELETON + WING Date : May 30, 1987

Sex : ♂ L: 2.36 x 1.32 x 1.34 R: 1.91 x 1.26 x 1.17

Wt: 1260g Fat : Good

Winglength : right: 42.0cm , chord : 138 cm

Primary length : 10 : 29.3 cm 7 : 28.5

9 : 29.7 6 : 26.9

8 : 29.4 5 : broken

Tail : 16.4

Tarsus : right: 6.23 out : 5.77 in : 4.57
mid : 5.85 Hal : 0.58

Headlength : 12.65

Bill length : 6.03 post nares : 3.43

Bill width : 1.27

Bill depth : Gonys : 2.19

Ant nares : 2.13

Post nares : 2.01

Brood patches : 3

Bill color : 10YR 7-10

Eyering color : 10YR 7-10

Irides : 5Y 8-2

diffuse pigment throughout. + scattered blotches
pigment color : 10 YR 4-1

Legs : 2.5 R 7-4

Remarks : Stomach full fish. 2 frozen & 1 EtOH vial.

Tail feather shafts w/ pigment.

Doug Bell
1987

Catalog

DAB
[redacted]
147

SKIN & PARTIAL SKELETON

Larus occidentalis

Location: Humboldt Co., Sugarloaf Rock at Cape Mendocino, CA.

Date: May 30, 1987

Sex: ♂ L: 1.35 X 1.05 X 0.87 R: 1.32 X 0.95 X 0.62

Wt.: 1200g Fat: Good

Winglength: left: 41.3 cm chord: 137 cm

Primary length 10: 29.0 7: 27.8

9: 29.7 6: 25.9

8: 29.2 5: 24.1

Tail: 15.8

Tarsus: left: 6.32 out: 5.95 in: 4.69 mid: 6.00 Hal: 0.61

Headlength: 12.88

Bill length: 5.68 post. nares: 3.43

Bill width: 1.27

Bill depth: Gonys: 2.13

ant. nares: 2.02

post. nares: 1.98

Brood patches: 3

Bill color: 10YR 7-12

Eyering color: 10YR 7-10

Irides: 5Y 8-3 Heavy even pigment lower ½, scattered diffuse upper ½, pigment color: 10YR 3-2

Legs: 5R 7-4

Remarks: 1 frozen vial. Several worms Fish in stomach.

Doug Bell
1987

Catalog

173397

DAB

148

SKELETON
+
Left Wing

Larus occidentalis

Location: Alcatraz I., S.F. Co., Calif

Date: 2 June 1987

Sex: ♀ 13 ova ≥ 0.48 cm ⌀

Wt: 895 gms Fat:

Winglength: 38.2 cm Right Chord: 128.5 cm

Primary Length: 10: 27.6 7: ~~[illegible]~~ 26.1

9: 28.0 6: ~~[illegible]~~ 25.0

8: 27.5 5: 23.1

Tail: 14.9 cm Slight pigment in shafts.

Tarsus: Rt 5.61 Toes OUT: 5.23 IN: 4.14 MID: 5.46 HALLUX: 0.34

Headlength: 11.86

Bill length: 5.38 post nares: 3.50

Bill Width: 1.33

Bill Depth: ~~[illegible]~~ Gonys: 2.08

Ant Nares: 2.06

Post Nares: 1.88

Brood patches: 3

Bill Color: 10 YR 7/10 Gony 5R 5/10.

Eyering Color: 10 YR 7/10 Very diffuse pigment in lower 1/3 – no spots. Lower.

Irides: 5Y 8/2

Legs: 5R 7/3

Remarks: Trapped off 3 egg nest. Mate of 149. Blood + 2 frozen (lg small) saved. Stomach empty.

1987 Catalog

Doug Bell

172398

DAB Larus occidentalis

149 Location: Alcatraz I., S.F. Co., Calif.

Skeleton + Date: 2 June 1987

Left Wing + Sex: ♂ L: 1.50 x 1.00 x 0.98 R: 1.36 x 1.03 x 0.83 cm

Rt Wing P°10-3; 1+2 in molt Wt: 1,165 gms. Fat: Good

Winglength: 41.5 cm (Rt.) Chord: 143 cm

Primary Length 10: 29.6 7: 27

9: 29.9 (worn) 6: 26.1

8: 29.0 5: 24.5

Tail: 16.4 cm Pigment on shafts + slightly on vanes

Tarsus: 6.19 cm (Rt.) Toes: Mid: 6.21 Out: 6.00 In: 5.07 Hallux: 0.32

Headlength: 12.88 cm

Bill length: 5.46 post nares: 3.64

Bill Width: 1.45

Bill Depth: Gonys: 2.21

Ant Nares: 2.20

Post Nares: 2.12

Brood Patches: 3

Bill Color: 10 YR 7/12 Gony spot: 5 YR 6/10 (after short freeze)

Eyering Color: 10 YR 7/10. Even pigment, diffuse in lower 1/2 of iris.

Irides: 5 Y 8/4 Pigment: 2.5 Y 3/2

Legs: 2.5 R 6/4

Remarks: trapped off 3 egg nest. Mate of 148. Blood + 2 frozen vials. Stomach trace fish vertebrae + 2 shells (white).

Douglas A. Bell
1987

Catalog

172327

DAB

150

SKELETON + Rt. WING.

Larus occidentalis

Location: ½ mi. N. ~~McClear's~~ McClures Beach, Tomales Point, Point Reyes Nat'l Seashore, Marin Co., Calif.

Date: June 5, 1987

Sex: ♀. Ovary small; 3 ova ~ 1.5 mm, few others.

Wt: 910 gms   Fat: Good

Winglength: 39.2 cm (Right)   Chord: 131 cm

Primary Length: 10: 27.3 cm   7: 25.3 cm

9: 28. cm   6: 24.2 cm

8: 26.7 cm   5: 21.9 cm

Tail: 14.3 cm   No pigment in shafts.

Tarsus: 5.91 cm (Right).   Toes: Out: 5.13 cm   Mid: 5.27 cm   In: 4.17 cm   Hallux: 0.41 cm

Headlength: 11.53 cm

Bill length: 5.21 cm   Post Nares: 3.34 cm

Bill width: 1.32 cm

Bill depth: Gonys: 1.91 cm   Ant. Nares: 1.87 cm

Post. Nares: 1.80 cm

Brood patches: 3 nearly re-feathered (dime sized skin areas).

Bill Color: 10 YR 7/10.

Eyering Color: 10 YR 7/10.

Irides: 5 Y 8/6. Very little pigment.

Legs: 10 R 8/4.

Remarks: Feather primaries 3-2-1 in molt; ¼ down (2,1); 3 not out. 2 frozen vials; 1 blood. Stomach contains 1 full squid. Shot on beach.

Doug Bell
1987

Catalog

DAB

Larus occidentalis

151 Location: ½ mi. N McClear's Beach, Tomales Point, Point Reyes Nat'l. Seashore, Marin Co., Calif.

SKELETON + Rt. wing

Date: June 5, 1987

Sex: ♀ ovary very small <1 cm; ~5 ova, all < 1 mm Ø.

Wt: ~~[illegible]~~ 910 gms — Fat: Moderate.

Winglength: 41 cm (left) — Chord: ~~130 cm~~ 136 cm

P° Length: 10: 28.1 cm — 7: 26.9 cm

9: 29.3 cm — 6: 24.8 cm

8: 28.4 — 5: 22.7 cm

Tail: 14.9 cm

Tarsus: 5.74 cm (left) — Toes: out: 5.57 — MID: 5.91 cm — IN: 4.28 cm — HALLUX: 0.40 cm

Headlength: 11.96 cm

Bill length: 5.66 cm — Post Nares: 3.59 cm

Bill width: 1.26 cm — @ Gape: 2.63 cm

Bill depth: Gonys: 1.94 cm — Ant. Nares: 1.84 cm

Post. Nares: 1.76 cm

Brood patches: 3 - heavily feathered; dime-sized patch of skin.

Bill Color: 10 YR 7/12

Eyering Color: 10 YR 7/10

Irides: 5 Y 5/2 (background) + 5 Y 8/2 - pigment, diffuse, even over whole iris

Legs: 5 R 7/2

Remarks: Imm.: 3-4 yr bird. Brown flecking on nearly every tail feather. Left wing primaries 10-4 saved; 3, 2, 1 with 1 longer than 2 > 3 in molt. Bill black-tipped. 2 Frozen vials, 1 blood (24 hrs). Stomach partially filled with meal - small crustaceans (?). Several worms in body cavity. Shot on beach.

1987 Catalog
Douglas A. Bell

DAB

152
[...]eton + Right Wing

Larus occidentalis

Location: ½ mi. N. McCleur's Beach, Tomales Point, Point Reyes Nat'l Seashore, Marin Co., Calif.

Date: June 5, 1987

Sex: ♀ Ovary small; ~~3~~ 2 ova ~ 2 0.23 cm 4 ova ~ 0.17 cm

Wt: 890 gms Fat: Good

Winglength: 38.5 cm (left) Chord: 132.5 cm

P° length: 10 26.0 (broken) 7 26.2

9 27.8 6 24.0

8 ~~28.0~~ 27.1 5 22.0

Tail: Pigment in shafts. 14.7 cm

Tarsus: 5.89 cm (Right) Toes: Out: 5.41 cm Mid: 5.65 cm IN: 4.36 cm Hall. 0.45 cm

Headlength: 11.34 cm

Bill length: 5.32 cm Post Nares: 3.41 cm

Bill width: 1.14 cm

Bill depth Gonys: ~~1.90 cm~~ 1.93 cm Ant Nares: 1.90 cm

Post Nares: 1.75 cm

Brood patches: 3

Bill Color: 10 YR 7/10

Eyering Color: 10 YR 7/10

Irides: 5 Y 8/3 Very little pigment. A few small blotches of pigment in lower ⅓.

Legs: 10 R 7/2

Remarks: Small hole + splinter in inner left foot web.

Left Wing; P°1 molt, 2 broken Stomach full with 3 squid. 2 frozen meals; 1 blood. Shot on beach.

Douglas A. Bell
1987

Catalog

DAB

153 Larus occidentalis

skeleton + Left Wing.

Location: ½ mi. N. McCleur's Beach, Tomales Point, Point Reyes National Seashore, Marin Co., Calif.

Date: June 5, 1987

Sex: ♂ L: 1.08 x 0.84 x 0.58 R: 0.84 x 0.67 x 0.41

Wt: 1,200 gms. Fat: Good.

Winglength: 42.2 cm (Right) Chord: 139 cm

p° Length: (w) 10: 29.5 cm 7 28.0 cm

9: 30.1 6 25.9

8: 29.4 5 23.9

Tail: 16.2 cm 8 out of 13 rectrices have black flecks. Pigmented shafts (not outer 2 on each side!).

Tarsus: 6.18 cm (left) Toes: IN: 4.62 cm Out: 5.79 cm Mid: 6.24 cm Hal: 0.47 cm

Headlength: 12.30 cm

Bill length: 5.77 cm Post Nares: 3.63 cm

Bill width: 1.49 cm @ gape: 3.89 cm

Bill depth Gonys: 2.22 cm Ant Nares: 2.18 cm

Post Nares: 2.14 cm

Brood patches: 3 good ones!

Bill Color: 10 YR 7/10

Eyering Color: 10 YR 7/10

Irides: 5Y 8/3 Pigment: diffuse over upper half, heavy over lower half: 5 Y 4/2

Legs: 10 R 6/3

Remarks: Left foot - outer web 4 holes. Right foot - ~~outer~~ web 1 hole. Right wing Primaries 10-~~1~~ ~~(1 out)~~. Tail saved too. Stomach full of fish (small). Shot on beach.

Douglas A. Bell
1987

Catalog

172331
DAB

Larus occidentalis

154 Location: ½ mi. N. McClure's Beach, Tomales Point, Point Reyes Nat'l. Seashore, Marin Co., Calif

SKELETON + LEFT WING

Date: June 5, 1987

Sex: ♀ 16 ova ~2 0.29 cm ϕ

Wt: 1,035 gms. Fat: Heavy.

Wing length: Right: 38.2 cm Chord: 133

p° Length: 10: 27.9 7: 25.9

9: 28.2 6: 24.3

8: 27.0 5. 22.5

Tail: 14.9 cm Slight pigment on shafts.

Tarsus: 6.04 cm (left) Toes Out: 5.61 cm Mid: 6.17 cm In: ~~[illegible]~~ 4.33 cm Hallux: 0.45 cm

Headlength. 11.87 cm

Bill length: 5.67 Post Nares: 3.45 cm

Bill width: 1.19 cm

Bill depth: Gonys: 1.93 cm Ant Nares: 1.90 cm

Post Nares: 1.79 cm

Brood patches: 3 Middle Refeathering

Bill color: 10 YR 7/10

Eyering Color: 10 YR 7/10

Irides: 5 Y 8/2 diffuse, even pigment over lower half of iris.

Legs: 10 R 7/2

Remarks: Stomach full small crustaceans (shrimp).

2 frozen vials + 1 blood tube (~~[illegible]~~ EDTA).

Shot on beach.

Douglas A. Bell
1987

Catalog

723372

DAB — *Larus occidentalis*

155 — Location: ½ mi. N. McClure's Beach, Tomales Point, Point Reyes Nat'l. Seashore, Marin Co., Calif.

Skeleton + Right Wing — Date: June 5, 1987

Sex: ♀ 6 ova ~ ≥ 0.17 cm

Wt: 1,000 gms Fat: Good

Winglength: 38.9 cm (Left) Chord: 129 cm

Primary Length 10: 26.9 7: 25.5

9: 27.5 6: 23.5

8: 26.7 5: 21.7

Tail: 14.5 cm Few pigmented shafts.

Tarsus: 5.74 cm (left) Toes Out 5.50 cm Mid: 5.73 cm IN 4.20 cm Hal: 0.47 cm

Headlength: 11.79 cm

Bill length: 5.48 cm Post Nares: 3.29 cm

Bill Width: 1.32 cm

Bill Depth Gonys: 1.91 cm Ant Nares: 1.90 cm

Post Nares: 1.79 cm

Brood patches: 3 Middle refeathering.

Bill Color: 10 YR 7/10

Eyering Color: 10 YR 7/12

Irides: 5 Y 8/2 No pigment.

Legs: 10 R 8/2

Remarks: 1 frozen vial; 1 blood; Stomach largely empty; few medium size fish vertebrae + ribs.

Small hole in outer right web. Shot on beach

Douglas A. Bell
1997

Catalog

DAB Larus occidentalis

156 Location ½ mi N McClure's Beach, Tomales Point, Point Reyes Nat'l Seashore, Marin Co, Calif.

Skeleton – left wing Date June 5 1997

Sex ♀ Ovary 20.33 mm, 2 enlarged ova

Wt. 955 gms Fat: Good

Winglength 39.5 cm (left) Chord 13.0 cm

P° Length 10: 22.4 cm 7: 25.0 cm

9: 28.3 6: 23.9

8: 27.5 5: 22.7

Tail: 14.9 cm Slight pigmenting in shafts

Tarsus 5.92 cm (Right) Toe Out: 5.71 cm Inn: 4.50 cm Mid: 6.04 cm Hall: 2.43 cm

Headlength 11.69 cm

Bill length 5.43 cm Ant Nares: 3.8 cm

Bill width 1.18 cm

Bill depth Gonys: 1.94 cm Ant Nares: 1.86 cm

Post Nares: 1.79 cm

Brood patches: 3

Bill color 10 YR 7/10

Gape color: 10 YR 7/10

Iris: 5 Y 8/2 Thick even pigment through lower ¾ of iris color: 5 Y 3/2

Legs: 5 R 7/2

Remarks: ~~[illegible]~~ of wing – Primaries 0-2. Stomach nearly empty, some fish meal, maize, 2 [illegible], one [illegible]. Shot on beach

Douglas A. Bell
1987

Catalog

DAB 157 SKELETON & Rt. Wing 4 YR.

Larus occidentalis:

Location: ½ mi. N. McLeur's Beach, Point Reyes Natl. Seashore, Tomales Point, Marin Co., Calif.

Date: June 5, 1987

Sex: ♀ Ovary large: 2 ova ≥ 0.44 cm, several ova (~10) ~2 mm

Wt: 860 gms   Fat: Good

Winglength: 39.8 cm (left). Chord: 131 cm

p° length: 10: 27.9 cm   7: 26.5 cm
9: 28.2   6: 23.7
8: 27.7   5: 22.7

Tail: 14.5 cm

Tarsus: 5.51 cm (Right)   Toes Out: 5.44 cm   Mid: 5.61 cm
In 4.26   Hallux: 0.36 cm

Headlength: 11.68 cm

Bill length: 5.30 cm   Post Nares: 3.29 cm

Bill width: 1.28 cm

Bill depth: Gonys: 1.93 cm   Ant Nares: 1.88 cm
Post Nares: 1.77 cm

Brood Patches 3 good ones!

Bill Color: 10 YR 7/10

Eyering Color: 10 YR 7/2

Irides: 5 Y 7/2 Diffuse pigment, even, throughout lower 2/3 of iris = 5 Y 3/2

Legs: 5 R 7/3

Remarks: Pigmented shafts, imm. flecking on 2 rectrices, brown in wings. Stomach empty. Few worms in stomach; one bit of plant matter. 2 frozen vials, 1 blood. Shot on beach.

Douglas A. Bell
1987

Catalog

192285

DAB

158

Skeleton + Right Wing

Larus occidentalis

Location: ½ mi. North McClear's Beach, Tomales Point, Point Reyes Nat'l Seashore, Marin Co., Calif.

Date: June 5, 1987

Sex: ♀ Large ovary. 5 ova ≥ 0.35 cm

Wt: 895 gms   Fat: Heavy

Winglength: 39.2 cm (left)   Chord: 132.2 cm

p° Length: 10: 28.1 cm   7: 26.5 cm
9: 29.5   6: 24.6
8: 27.7   5: 23.0

Tail: 14.9 cm

Tarsus: 5.57 cm (left)   Toes: Out 5.53 cm   Mid 5.71 cm
IN 4.28 cm   Hal. 0.65 cm

Headlength: 11.40 cm

Bill length: 4.92 cm   Post Nares: 3.28 cm

Bill width: 1.26 cm   @ Gape: 2.61 cm

Bill depth Gonys 2.01 cm   Ant Nares: 1.93 cm
Post Nares: 1.80 cm

Brood patches: 3 slight refeathering.

Bill Color: 10 YR 7/12

Eyering Color: 10 YR 7/12. Thick gony color front + rear (over ⅓ ring)

Irides: 5 Y 8/3 Diffuse pigment + blotchy patches lower ½.

Legs: 7.5 R 8/2

Remarks: 5 out of 12 rectrices w/ pigmented shafts. Left wing primaries 10-3 saved; 1-2 in molt 2<1. #1 ⅔ ~~out~~ down. 2 frozen + 1 blood vial. Stomach empty. Shot on beach.

Douglas A. Bell
1987

Catalog

DAB 159 Skeleton + Left Wing

Larus occidentalis

Location: Tomales Point, Marin Co., Calif. 1/2 mi. North McCleur's Beach, Point Reyes Nat'l Seashore.

Date: June 5, 1987

Sex: ♀ 12 ova ≥ 0.32 cm

Wt: 1000 gms. Fat: Good

Winglength: 40 cm (Right) Chord: 135.5 cm

Primary length: 10: 27.7 cm 7: 25.4 cm

9: 27.7 cm 6: 23.5 cm

8: ~~25.4 cm~~ 26.6 cm 5: 22.0 cm

Tail: 14.7 cm Pigmented shafts.

Tarsus: 6.01 cm (left) Toes: MID: 6.25 cm Out: 5.96 cm IN: 4.55 cm Hal: 0.44 cm

Headlength: 12.39 cm

Bill length: 5.70 cm Post Nares: 3.38 cm

Bill depth: Gonys: 2.01 cm Ant Nares: 1.95 cm

Bill width: 1.25 cm Post Nares: 1.75 cm

Brood patches: 3 - but all refeathering.

Bill Color: 10 YR 7/12

Eyering Color: 10 YR 7/10

Irides: 5 Y 8/4. Very little pigment.

Legs: 7.5 R 8/2

Remarks: Shot on beach. Right wing: P° 10-3; 2 in molt.

Squid in stomach.

Douglas A. Bell
1987

Catalog

DAB

150 Eyering 10 YR 7/10 Iris: 5 Y 8/6 Little Pigment
Bill 10 YR 7/10 Leg 10 R 8/4

151 Eyering 10 YR 7/0 Iris: 5 Y 5/2 + 5 Y 8/2
Bill 10 YR 7/12 Legs 5 R 7/2

153 Eyering 10 YR 7/10 Iris: 5 Y 8/3 Pigment: Lower ½ 5 Y 4/2 heavy, Upper half diffuse
Bill 10 YR 7/10 Legs 10 R 6/3

152 Eyering 10 YR 7/10 Iris: 5 Y 8/3 very little pigment blotches in lower ⅓
Bill 10 YR 7/10 Legs 10 R 7/2

154 Eyering 10 YR 7/10 Iris 5 Y 8/2 diffuse lower half
15 Bill 10 YR 7/10 Legs 10 R 7/2
Brood patches

155 Eyering 10 YR 7/12 Iris 5 Y 8/2
Bill 10 YR 7/10 Legs 10 R 8/2
B.P.

156 Eye 10 YR 7/10 Iris: Thick pigment throught - 5 Y 8/2 5 Y 3/2
Bill 10 YR 7/10 Legs: 5 R 7/2
B.P.

157 Eye 10 YR 7/12 Iris: Diffuse pigment throught lower ⅔ 5 Y 7/2
Bill 10 YR 7/10 Legs 5 R 7/3

✓ 158 Eye 10 YR 7/12 Gony thick Front/rear ⅓ Iris Diffuse pigment + blotches lower ½ 5 Y 8/3
Bill 10 YR 7/12 ✓ Legs 7.5 R 8/2

✓ 159 ✓ Eye 10 YR 7/10 ✓ Iris 5 Y 8/4 very little pigment.
✓ Bill 10 YR 7/12 ✓ Legs 7.5 R 8/2

Douglas A. Bell
1987

Catalog

DAB
160
SKELETON + Rt. Wing

Larus occidentalis

LOCATION: Crescent City Dump, Old Mill Road, Del Norte Co., Calif.

DATE: June 11, 1987

SEX: ♂ L. T: 1.64 x 1.00 x 0.97 Rt. T. destroyed.

WT: 1,180 gms. FAT: Good

WINGLENGTH: 43.9 cm (left) CHORD: 151 cm

PRIMARY LENGTH: 10: 30.2 7: 27.7
9: 31.0 6: 26.0
8: 30.3 5: 24.7 cm

TAIL: 16.9 cm 3 out of 12 shafts pigmented.

TARSUS: 6.96 cm (Rt). TOES: OUT: 6.41 cm MIDDLE: 6.63 cm IN: 4.92 cm HALLUX: 0.58

HEADLENGTH: 13.08 cm

BILL LENGTH: 5.62 cm @ POSTERIOR NARES: 3.65 cm

BILL WIDTH: 1.45 cm @ GAPE: 3.72 cm

BILL DEPTH: GONYS: 2.32 cm ANT. NARES: 2.30 cm
POST. NARES: 2.20 cm

BROOD PATCHES: 3 - Thumb-sized.

BILL COLOR: 10 YR 7/10

EYERING COLOR: 10 YR 7/10. Gony blotch in rear corner.

IRIDES: 5 Y 8/2 Even pigment flecking (grainy) in lower ½: 5 Y 3/2

LEGS: 10 R 7/4

REMARKS: 1 frozen + 1 blood vial. Stomach had a few fish vertebrae + ribs. Left wing pº 10-2.

Douglas A. Bell   Catalog
1987

DAB   Larus occidentalis
161   Location: Crescent City Dump, Old Mill Rd., Del Norte Co., Calif.
SKELETON + Rt. WING   Date: 11 June 1987
Sex: ♂   L: 1.90 X 1.07 X 0.96   R: 1.38 X 0.98 X 0.94
Wt: 1,110 gms   Fat: Good.
Winglength: Left: 41.1 cm   Chord: ~~147~~ 147 cm
Primarylength 10: 29.1   7: 27.5
9: 29.5   6: 26.1
8: 29.0   5: 24.0.

Tail: 15.9 cm
Tarsus: 6.33 cm (Rt)   Toes: out: mid:
in: Hal:
Headlength: 12.95 cm
Bill length: 6.04 cm   at post. nares: 3.71 cm
Bill width: 1.38 cm   at Gape: 3.73 cm
Bill depth: Gonys: 2.20
Ant. nares: 2.13
Post. nares: 2.02
Brood patches: 3
Gony Color: Flame scarlet (15) 10 R 5/16
Bill color: 10 YR 7/10   towards tip: 5 Y 7/10.
Eyering Color: 10 YR 7/10   ~~towards tip: 5 Y 7/10~~

Irides: 5 Y 8/3. Pigment grainy - in lower ½.

Legs: 5 R 7/3
Remarks: Stomach empty. 1 frozen + blood vial. Divots in right inner foot web.

Douglas A. Bell
1987

Catalog

DAB 162
SKELETON + Rt. WING

Larus occidentalis

Location: Crescent City Dump., Old Mill Rd, Del Norte Co., Calif.

Date: 11 June 1987

Sex: ♀ L. ovary: 7 ova ≥ 0.21 cm

Wt: 1,015 gms   Fat: Good

Winglength left 41.1 cm   Chord: 143 cm

Primarylength: 10: 29.1 cm   7: 27.5 cm

9: 29.6   6: 25.4

8: 29.0   5: 24.0

Tail: 15.6 cm   6 out of 12 rectrices pigmented.

Tarsus: 6.28 cm (left)   Toes: out: 5.95 mid: 6.10 cm   in: 4.47 Hal: 0.51 cm

Headlength: 12.06 cm

Bill length: 5.26 cm   at post. nares: 3.60 cm

Bill width: 1.36 cm   at gape: 3.46 cm

Bill depth: gonys: 2.09 cm

Ant. nares: 2.00 cm

Post. nares: 1.86 cm

Brood patches: 3 - Refeathering slightly.

Bill color: 10 YR 7/10   Gony: 10 R 5/16

Eyering Color: 10 YR 7/10   Gony color front & rear.

Irides: 5 Y 8/3   Pigment graing throughout.

Legs: 5 R 7/3

Remarks: Stomach ½ full w/ fish matter. Left wing primaries 10-4; 3-1 molting 1>2>3.

Douglas A. Bell
1987

Catalog

DAB 163

Larus occidentalis

Location: Crescent City Dump, Old Mill Rd., Del Norte Co., Calif.

Date: 11 June 1987

Sex: ♂ 0.71 x 0.50 x 0.40 cm (L.) R: 0.66 x 0.44 x 0.32 cm

Wt: 1,175 gms Fat: Good

Winglength 41.2 cm (~~left~~ Right) Chord: 142.5 cm

Primarylength: 10: 29.3 cm 7: 27.0 cm

9: 29.8 6: 25.9

8: 29.1 5: 24.2

Tail: 16.2 cm 6 out of 13 pigmented shafts.

Tarsus: 6.43 cm (left). Toes: out: 6.20 mid: 6.00 in: 4.76 Hal: 0.46 cm

Headlength: 13.27 cm

Bill length: 6.22 cm at post. nares: 3.66 cm

Bill width: 1.36 cm at Gape: 3.43 cm

Bill depth: Gonys : 2.20 cm

Ant. nares: 2.15 cm

Post. nares: 2.08 cm

Brood patches: 3 Middle one thumb-sized.

Bill color: 10 YR 7/10 Gony: 5R 7/16

Eyering color: 10 YR 7/10 Gony color front + rear.

Irides: 5 Y 8/2. Grainy pigment in lower 2/3.

Legs: 5R 8/2

Remarks: Right middle toe joint (+ left too!) infected + inflamed - swollen like bumblefoot. Stomach full w/ yellow gunk. 1 blood 1 frozen vial.

Douglas A. Bell
1987

Catalog

DAB 164 Skeleton + ~~Left~~ Right Wing

Larus occidentalis

Location: Crescent City Dump, Old Mill Rd., Del Norte Co., Calif.

Date: 11 June 1987.

Sex: ♀ 3 ova ≥ 0.37 cm + 9 ova ≥ 0.25 mm

Wt: 955 gms Fat: Good.

Winglength: Left: 40.2 cm Chord: 133.5 cm

Primarylength: 10: 28.3 7: 26.5
9: 29.1 6: 25.2
8: 28.1 5: 23.3

Tail: 15.6 cm all shafts slightly pigmented.

Tarsus: 6.21 (Rt.) Toes: out: 5.48 mid: 5.80 in: 4.31 Hal: 0.50

Headlength: 12.13 cm

Bill length: 5.50 cm at post. nares: 3.68 cm

Bill width: 1.33 cm at Gape: 3.31 cm

Bill depth: Gonys : 2.05 cm
Ant nares : 2.00
Post nares : 1.86

Brood patches: 3

Bill color: 10 YR 7/10 Gony 5 R 7/16

Eyering color: 10 YR 7/10 Gony color front + rear.

Irides: 5 Y 7/4 - but pigment distributed as a doughnut around outer iris - thick: 5 Y 2.5/1.

Legs: 5 R 7/3

Remarks: Stomach full w/ yellow mush. 1 frozen + 1 Blood vial. Few worms in body cavity + kidneys. Left Wing: P° 10-3; 2 + 1 in molt. 2 > 1. Holes - 2 - in right outer foot web.

Douglas A. Bell
1987

Catalog

DAB 165 — Skeleton + Left Wing

Larus occidentalis

Location: Crescent City Dump, Old Mill Rd., Del Norte Co., Calif.

Date: 12 June 1987

Sex: ♂ 1.01 x 0.97 x 0.70 (L) R: 1.16 x 0.64 x 0.61 cm

Wt: 1,295 gms Fat: Good

Winglength: 42 cm (Rt). Chord: 141 cm

Primarylength: 10: 28.9 7: 27.2

9: 29.4 6: 25.6

8: 28.3 5: 23.5

Tail: 16.8 cm 4 out of 12 slightly pigmented

Tarsus: 6.67 cm (left). Toes: out: 6.36 mid: 6.46 in: 4.82 Hal: 0.65

Headlength: 13.17 cm

Bill length: 5.91 cm at post. nares: 3.77 cm

Bill width: 1.35 cm at Gape: 3.30 cm

Bill depth: Gonys: 2.27 cm

Ant. nares: 2.24 cm

Post. nares: 2.10 cm

Brood patches: 3 all refeathering 3 < 1 + 2.

Bill Color: ~~5Y 7/6~~ 5Y 7/6 Gony: 5 YR 6/10

Eyering Color: 5Y 8/6; touch of gony color in both corners

Irides: 7.5Y 8/6 Very few diffuse pigment patches in lower 1/3

Legs: 5R 7/2

Remarks: Hole in left inner web + right outer. Right primaries 10-4; 3<2<1 (molt). Stomach Empty. 1 frozen vial + 2 blood vials.

Douglas A. Bell
1987

Catalog

DAB 166

Larus occidentalis

Skele. + Left Wing.

Location: Crescent City Dump, Old mill Rd., Del Norte Co., Calif.

Date: 12 June 1987

Sex: ♂ L: 1.09 x 0.72 x 0.71 R: 1.18 x 0.85 x 0.77 cm

Wt: 1,190 gms. Fat: Good

Winglength: 41.8 cm (~~Left~~ Right) Chord: 143.5 cm

Primary length: 10: 29.4 7: 27.7
9: 32 6: 25.7
8: 29 5: 24.0

Tail: 15.8 cm 11 out of 12 pigmented shafts + vanes (saved)

Tarsus: 6.49 cm (Rt). Toes: out: in: mid: Hal:

Head length: 13.08 cm

Bill length: 5.76 at post nares: 3.53

Bill width: 1.37 cm at Gape: 3.49 cm

Bill depth: Gonys: 2.27 cm
Ant. nares: 2.25
Post. nares: 2.14

Brood patches: 3 - thumb sized.

Bill color: 10 YR 7/12 Gony: 10 R 5/16

Eyering color: 10 YR 7/10. Touch of grey in rear.

Irides: 5 Y 7/4. Uneven pigment in lower half - diffuse.

Legs: 5 R 6/3

Remarks: Primaries (left) 10-4+1 (2+3 molt?). Stomach empty. 1 frozen vial + testes saved.

Douglas A. Bell
1987

Catalog

DAB
167
Skeleton + Rt. Wing

Larus occidentalis

Location: Crescent City Dump, Old Mill Rd., Del Norte Co., Calif.

Date: June 12, 1987

Sex: ♂ L: 0.76 x 0.52 x 0.55 R: 0.67 x 0.48 x 0.43

Wt: 1,120 gms Fat: Good

Winglength: 41.1 cm (left). Chord: 139.5 cm

Primary length: 10: 29.2 7: 27.7
9: 30.0 6: 26.0
8: 29.6 5: 24.2

Tail: 16.1 cm 6 out of 12 sign. shafts.

Tarsus: 6.62 (left). Toes: out: 5.58 mid: 5.62 in: 4.43 Hal: 0.47

Headlength: 13.27 cm

Bill length: 5.96 cm at post. nares: 3.77

Bill width: 1.32 cm at ~~[illegible]~~ Gape: 3.64 cm

Bill depth: Gonys: 2.18
Ant nares: 2.10
Post nares: 2.08

Brood patches: 3. Middle smaller

Bill color: 10 YR 7/10 Gony 10 R 5/16

Eyering color: 5 Y 8/8 (faded?)

Irides: 5 Y 8/4. Few irregular diffuse pigment blotches scattered throughout.

Legs 5R 6/3

Remarks: Left P° 10-3+1 (2 molt). Stomach full of mealy ooz.

1 frozen vial.

Douglas A. Bell
1987

Catalog

192295

DAB 168 Skeleton + Left Wing

Larus occidentalis

Location: Crescent City Dump, Old mill Rd., Del Norte Co., Calif.

Date: 12 June 1987

Sex: ♂ L: 1.51 x 1.09 x 0.99 R: 1.51 x 1.09 x 0.98 cm

Wt: 1,170 gms Fat: Good

Winglength: 41.7 cm (Right) Chord: 143 cm

Primary length: 10: 29.0 7: 27.0
9: 29.6 6: 26.6
8: 28.9 5: 24.5

Tail: 16.6 cm 4 out of 12 shafts pigmented

Tarsus: 6.56 (left) Toes: out: 6.11 mid: 6.38 in: 4.75 Hal: 0.46

Headlength: 13.69

Bill length: 6.31 at post. nares: 3.28

Bill width: 1.39 at Gape: 3.57

Bill depth: Gonys: 2.39
Ant. nares: 2.27
Post. nares: 2.13

Brood patches: 3

Bill color: 5Y 7/10 Gony 10R 5/14

Eyering color: 10YR 7/10 - mostly in corners

Irides: 5Y 8/3. Few diffuse pigment blotches throughout.

Legs: 7.5R 8/2

Remarks: Stomach Empty. 1 frozen + 1 blood vial.

Douglas A. Bell 1987

Catalog

DAB 169

Skeleton + Rt. Wing.

Larus occidentalis

Location: Crescent City Dump, Old Mill Rd., Del Norte Co., Calif.

Date: 12 June 1987

Sex: ♂ L: 1.41 x 1.06 x 1.02 R: 1.23 x 0.92 x 0.75

Wt: 1115 gms Fat: Good

Winglength: 43.5 cm (left). Chord: 148 cm

Primary length: 10: 29.7 cm 7: 28.1

9: 30.3 6: 26.5

8: 29.6 5: 25.3

Tail: 16.3 cm 8 out of 12 pigmented shafts

Tarsus: 6.68 cm (left) Toes: out: 6.09 mid: 6.47 cm in: 4.92 cm Hal: 0.60 cm

Headlength: 13.46 cm

Bill length: 5.84 at post. nares: 3.62 cm

Bill width: 1.36 at Gape: 3.47

Bill depth: Gonys 2.11 cm

Ant nares: 2.07

Post nares: 2.02

Brood patches: 3 Middle one thumb-size; other refeathering.

Bill color: 10YR 7/10

Eyering color: 10YR 7/10 Some gony color in both corners.

Irides: 5Y 8/4 Grainy pigment blotches in lower half.

Legs: 5R 6/3

Remarks: Stomach empty xcpt for white piece of shell

1 frozen vial.

Douglas A. Bell
1987

Catalog

DAB 170 *Larus occidentalis*

Location: Elk River Mouth, 1 mi. N. Paradise Point (nr. Port Orford; 3 mi. S Cape Blanco), Curry Co., Oregon. (McKenzie Ranch)

Date: 14 June 1987

Sex: ♂ L: 0.96 × 0.66 × 0.62 cm   R: 0.92 × 0.55 × 0.39

Wt: 1,220 gms.   Fat: Heavy

Winglength: 43.7 cm (left)   Chord: 143 cm

Primary length: 10: 29.9   7: 28.8
9: 30.5   6: 26.6
8: 30.1   5: 25.0

Tail: 16.1 8 out of 12 pigmented

Tarsus: 6.79 (lft.)   Toes: out: 6.24 mid: 6.27 in: 4.57 Hal: 0.64 cm

Headlength: 13.35 cm

Bill length: 5.88   at post. nares: 3.88

Bill width: 1.46 cm   at Gape: 3.60 cm

Bill depth: Gonys: 2.18 cm
Ant. nares: 2.13 cm
Post nares: 2.02 cm

Brood patches: 3

Bill color: 10 YR 7/12   Gony: 10R 5/14

Eyring color: 10 YR 7/10   Gony color near only

Irides: 5Y 8/3. Heavy graining pigment in lower 2/3, + blotchy in upper 1/3, obscuring most background. Pigment 10YR 3/1.

Legs: 5R 7/4

Remarks: Left p° 10-3 (2+1 molt) 1 frozen + 2 blood vials

Stomach empty.

Douglas A. Bell
1987

Catalog

172234

DAB
171
Skel. + ~~[illegible]~~
~~[illegible]~~
~~[illegible]~~ Right Wing

Larus occidentalis

Location: Elk River Mouth, 1 mi. N Paradise Point (nr. Port Orford) 3 mi. S Cape Blanco, Curry Co., Oregon (McKenzie Ranch)

Date: 14 June 1987

Sex: ♀ 3 ova ≥ 1.5 mm. Few other ova

Wt: 970 gms

Fat:

Winglength: ~~43.7 cm~~ 38.8 (left)

Chord ~~142~~ 131 cm

Primarylength: 10: ~~29.9~~ 27 w 7: ~~28.8~~ 25.5
9: ~~30.5~~ 28 w 6: ~~26.6~~ 23.5
8: ~~30.1~~ 26.6 5: ~~25.0~~ 22.0

Tail: ~~16.1 cm~~ 14.6 cm ~~8 out 12 shafts pigmented~~ 6 out of 12 shafts pigmented

Tarsus: 5.67 (rt)

Toes: out: 5.34 mid: 5.61 In: 4.50 Hal: 0.57

Headlength: 12.05

Bill length: 5.52

at post. nares: 3.28

Bill width 1.15

at Gape: 3.16

Bill depth: Gonys: 1.89
Ant. nares: 1.84
Post. nares: 1.75

Brood patches: 3 thumb-sized; refeathering

Bill color: 10 YR 7/10. Gony 10R 5/14.

Eyering color: 10YR 7/10 Gony in both corners.

Irides: 5 Y 8/2. Pigment, grainy diffuse lower 2/3, some upper 1/3. Color: 5 YR 3/1 ⊙

Legs: 5R 7/3

Remarks: Left P° 10-3 + 1 (1+2 molt) Stomach full squid
1 frozen mint.

D. A. Bell Catalog

DAB 172 Skele + Rt. Wing

Larus occidentalis

Location: Elk River Mouth, 1 mi. N Paradise Point (nr. Port Orford) 3 mi. S. Cape Blanco, Curry Co., Oregon (McKenzie Ranch)

Date: 14 June 1987

Sex: ♂ L: 0.96 x 0.71 x 0.50 R: 0.72 x 0.50 x 0.43

Wt: 1,355 gms Fat: Good

Winglength: 42.4 (left) Chord: 142 cm

Primary length: 10: 29 w 7: 27.8
9: 29.7 w 6: 26.9
8: 29 w 5: 24.5

Tail: 16.2 cm 12 non-pigmented shafts

Tarsus: 6.56 (left) Toes: out: 5.95 mid: 6.44 in: 4.85 Hal: 0.49

Headlength: 13.27

Bill length: 5.93 at post. nares: 3.53

Bill width: 1.32 at Gape: 3.36

Bill depth: Gonys 2.14
Ant. nares: 2.07
Post. nares: 2.02

Brood patches: 3

Bill color: 10YR 7/12 Gony 10 R 5/14

Eyering Color: 10 YR 7/10, slight gony color near. Fo

Irides: 5 Y 8/4. Faint pigment only.

Legs: 5 R 7/3 Left foot webs divided, incomplete, Right same too.

Remarks: left p° 10-3 Stomach full of minnows.

1 frozen rival.

D. A. Bell 1987

Catalog

DAB 173 Skeleton & Rt. Wing.

Larus occidentalis

Location: Elk River Mouth, 1 mi. N. Paradise Point (nr. Port Orford), 3 mi S. Cape Blanco, Curry Co, Oregon

Date: 14 June 1987

Sex: ♂ L: 0.88 x 0.66 x 0.59 R: 0.74 x 0.61 x 0.62

Wt: 1,175 gms Fat: Heavy

Winglength: 42.1 cm (left) Chord: 142.5 cm

Primarylength: 10: 29.3 w 7: 28.2

9: 29.9 w 6: 26.7

8: 29.5 5: 25.1

Tail: 15.9 cm 6 out of 6 shafts pigmented

Tarsus: 6.64 (Rt). Toes: out: 5.82 mid: 6.04 in: 4.72 Hal: 0.67

Headlength: 13.08 cm

Bill length: 5.76 at post. nares: 3.40

Bill width: 1.25 at Gape: 3.35

Bill depth: Gonys: 2.12

Ant. nares: 2.14

Post. nares: 2.01

Brood patches: 3

Bill color: 10 YR 7/14 10 R 5/14

Eyering color: 10 YR 7/12 One gray color spot rear.

Irides: 5 Y 8/4. Very little pigment lower half, uneven, diffuse - color: 2.5 Y 3/2 (10)

Legs: 5 R 7/4 2 holes left foot webs.

Remarks: p° (left) 10-3 Stomach w/ fish vertebrae

1 frozen [illegible]

D. A. Bell
1987

Catalog

DAB 174
Skeleton + Rt. Wing

Larus occidentalis

Location: Elk River Mouth, 1 mi. N. Paradise Point (nr Port Orford), 3 mi. S. Cape Blanco, Curry Co., Oregon (McKenzie Ranch)

Date: 14 June 1987

Sex: ♂ L: 0.70 x 0.64 x 0.41 R not found

Wt: 1,150 gms Fat: Good

Winglength: 42.5 cm (left). Chord: 144.5 cm

Primarylength: 10: 29.9 7: 28.4

9: 30.2 w 6: 26.1 w

8: 29.7 5: 24.8

Tail: 16 cm 8 out of 12 shafts pigment.

Tarsus: 6.58 (Rt) Toes out: 6.15 mid: 6.32 in: 4.85 Hal: 0.64

Headlength: 12.39 cm

Bill length: 5.39 at post. nares: 3.39

Bill width: 1.35 at Gape: 3.40

Bill depth: Gonys: 2.24 cm

Ant. nares: 2.22

Post. nares: 2.07

Brood patches: 3

Bill color: 10 YR 7/12 10 R 5/14

Eyering color: 10 YR 7/12 Gony color front & rear. Uneven, diffuse pigment lower 2/3.

Irides: 5 Y 8/3 ↲

Legs: 5 R 7/3 3 small holes (2 in, 1 out) in Rt. foot webbing.

Remarks: few worms around testis. Stomach full minnows. 1 frozen vial.

D.A. Bell
1987

Catalog

DAB
175
Skeleton & Left Wing

Larus occidentalis

Location: Elk River Mouth, 1 mi. N. Paradise Point (nr Port Orford) 3 mi. S. Cape Blanco, Curry Co., Oregon

Date: 15 June 1987

Sex: 1,010 gms. ♀ 26 ova ≥ 0.25 cm ⌀, 26 ova ≥ 0.14 cm ⌀. Large!

Wt: ↓ (970 gms - Stomach contents) Fat: Heavy.

Winglength 40 cm (right) Chord: 131.5 cm

Primarylengths: 10: 28.1 w 7: 26.2
9: 28.3 w 6: 24.4
8: 27.6 5: 22.7

Tail: 14.9 cm 8 out of 12 shafts & vanes pigmented. Vanes slight.

Tarsus: 6.05 cm (left) Toes: out: 5.62 mid: 5.68 cm in: 4.34 cm Hal: 0.65 cm

Headlength: 12.17 cm

Bill length: 5.47 cm at post. nares: 3.42 cm

Bill width: 1.31 at Gape: 3.08 cm

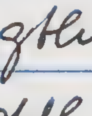
Bill depth: Gonys: 2.03 cm
Ant nares: 1.91 cm
Post. nares: 1.84 cm

Brood patches: 3 Good.

Bill color: 10 YR 7/14 Gony 5 R 5/14

Eyering Color: 10 YR 7/12 Gony color in rear and along 3 spots of lower ring.

Irides: 5 Y 7/4 Very little diffuse pigment patches in lower ½



Legs: 5 R 6/3

Remarks: Stomach full of 2 large squid & minnows. 1 frozen & 1 blood vial. Right Primaries 10-4, 3 out, 1 & 2 molt (⅔ ⅓ down respectively)

Douglas A. Bell
1987

Catalog

DAB 176 — *Larus occidentalis*

Skeleton + Rt. Wing

Location: Elk River Mouth, 1 mi. N. Paradise Point (nr. Port Orford), 3 mi. S. Cape Blanco, Curry Co., Oregon (McKenzie Ranch)

Date: 15 June 1987

Sex: ♂ L: 1.06 X 0.71 X 0.77 (light tan color) R: 1.17 X 0.87 X 0.67 (darker grey)

Wt: 1,210 gms Fat: Good

Winglength: 42 cm (Right) Chord: 145 cm

Primary length:

10: 28.4	w	7: 25.6	
9: 28.5	w	6: 25.1	
8: 26.6		5: 22.7	w

Tail: Only 2 outer tail feathers unbroken - all others broken → ratty! All rectrices have either pigmented shafts and/or vanes.

Tarsus: 6.53 cm (Right) Toes: out: 5.87 mid: 6.13 in: 4.61 Hal: 0.62 cm

Headlength: 13.65 cm

Bill length: 6.05 cm at post. nares: 3.91 cm

Bill width: 1.38 cm at Gape: 3.41 cm

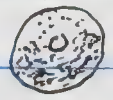
Bill depth: Gonys: 2.27 cm
Ant. nares: 2.15 cm
Post. nares: 2.05 cm

Brood patches: 3 slight refeathering; middle one thumb-sized.

Bill color: 10 YR 7/12 Gony 10 R 5/14

Eyering color: 10 YR 7/10

Irides: 5 Y 7/3. Pigment 5 YR 3/1 Heavy, grainy pigment in lower 2/3, but also diffuse. Diffuse in upper 1/3



Legs: 5 R 7/3

Remarks: Gizzard 1/3 full w/ mealy material; also 1 shell piece & one piece light blue ceramic. 1 frozen + 1 bl. vial. left wing P° 10-4, 3 out, 1 + 2 in molt but saved. Also ratty!

Douglas A. Bell
1987

Catalog

DAB
177
Skeleton +
Rt. Wing

Larus occidentalis

Location: Elk River Mouth, 1mi. N. Paradise Point, 3mi. S. Cape Blanco, Curry Co., Oregon (nr. Port Orford) (McKenzie Ranch).

Date: 15 June 1987

Sex: ♀ 9 ova ≥ 0.22 ~~cm~~

Wt: 1060 gms

Fat: Heavy

Winglength:

Chord: 132 cm

Primarylength: 10: 27.5 w

7: 25.2 w

9: 27.7 w

6: 24.2 w

8: 26.5

5: 22.5

Tail: 14.8 cm 6 of 12 pigmented shafts.

Tarsus: 6.05 (left)

Toes: out: 5.57 mid: 5.76 cm in: 4.34 Hal: 0.61 cm

Headength: 12.35 cm

Bill length: 5.36

at Post. nares: 3.38 cm

Bill width: 1.32

at Gape: 3.37 cm

Bill depth: Gonys: 1.96 cm

Ant. nares: 1.90 cm

Post. nares: 1.82 cm

Brood patches: 3 slight refeathering

Bill color: 10 YR 7/12 Gony 5 R 5/12

Eyering color: 10 YR 7/10 Gony color front + rear corners.

Uneven diffuse, heavy pigment lower ½; irreg. diffuse upper ½.

Irides: 5Y 8/4 ↓

Legs: 5 R 6/3

Remarks: Stomach full of small minnows. 1 frozen vial.

Left pº 10-3 (2 out) 1 barely down.

Douglas A. Bell
1987

Catalog

172241

DAB 178 Skel. + Left Wing

Larus occidentalis

Location: Coos Bay, nr. the Jettys + Coast Guard Tower, off Coos Head, Coos Co., Oregon

Date: 16 June 1987

Sex: ♂ L: 1.45 x 1.17 x 0.97 R: 1.25 x 0.82 x 0.75 cm

Wt: 1,360 gms Fat: Heavy

Wing length: 42.3 (Rt) Chord: 145 cm

Primary length: 10: 29.3 7: 27.8

9: 30.1 6: 26.3

8: 29.6 5: 24.8

Tail: 16.9 cm 8 of 12 shafts + ~ vanes pigmented.

Tarsus: 6.8 (left) Toes: out: 6.12 mid: 6.25 in: 4.80 Hal: 0.62

Headlength: 13.89 cm

Bill length: 6.22 cm at post. nares: 3.94 cm

Bill width: 1.43 cm at Gape: 3.85

Bill depth: Gonys: 2.21 cm

Ant. nares 2.17

Post. nares 2.11

Brood patches: 3

Bill color: 10YR 7/10 Gony: 10R 5/14

Eyering color: 2.5Y 8/8

Irides: 5Y 7/4 Very little, irregular diffuse pigment scattered around iris, thick even pigment in outer ring: Color 10YR 2/1

Legs: 5YR 7/3 (Faded)

Remarks: Rt. P° 10-2 (mont). Stomach full of fish matter. 1 frozen vial.

Catalog

132242

DAB
179
Skel +
Left Wing

Larus occidentalis

Location: Coos Bay, nr. Jettys + Coast Guard Tower, Coos Co., Oregon

Date: 16 June 1987

Sex ♂   L: 1.24 X 0.95 X 0.76   R: 0.97 X 0.83 X 0.68 cm

Wt: 1,200 gms   Fat: Heavy

Winglength: 42.5 (Right)   Chord: 148.5 cm

Primarylength: 10: 30.0 cm   7: 28.3 cm - w
9: 30.8 cm - w   6: 26.5 cm
8: 30.0 cm - w   5: 24.9 cm

Tail: 16.7 cm   12 of 12 shafts + ~ vanes pigmented.

Tarsus: 6.64 cm (Rt.)   Toes: out: 4.74   mid. 6.35
in 6.28   Hal. 0.52 cm

Headlength: 13.13 cm

Bill length: 5.99 cm   at post nares: 3.59 cm

Bill width: 1.32 cm   at Gape: 3.38 cm

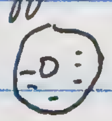
Bill depth   Gonys: 2.21 cm
Ant. nares: 2.12
Post. nares: 2.04

Brood patches 3.

Bill color: 10 YR 7/10   Gony 10 R 5/12

Eyering color: 10 YR 7/10. Gony color, rear corner.

Irides: 5Y 8/3. Diffuse, irreg. pigment blotches lower 2/3 - very little.



Legs: 5R 7/3

Remarks: Rt. P° 10-3 (2 out, 1 molt). 2 frozen vials.

Stomach w/ few small fish vertebrae.

Catalog

172243

DAB
180
Skel. +
Left Wing

Larus occidentalis

Location: Coos Bay, nr. Jettys + Coast-Guard Tower, Coos Co., Oregon

Date: 16 June 1987

Sex: ♂ L: 1.32 X 0.88 X 0.85 R: 1.11 X 0.81 X 0.67 cm

Wt: 1,260 gms Fat: Good

Winglength: 42.3 (Rt). Chord: 144 cm

Primary length: 10: 28.4 cm - w 7: 27.5 cm w
9: 29.1 - w 6: 26.1 w
8: 29.1 - w 5: 24.3 w

Tail: 16.4 cm 6/12 w/ pigmt. shafts/vanes.

Tarsus: 6.70 cm (left) Toes: out: 6.10 mid: 6.33 cm in: 4.78 Hal: 0.53 cm

Headlength: 13.27 cm

Bill length: 6.44 cm at post. nares: 3.68 cm

Bill width: 1.23 at Gape: 3.11 cm

Bill depth: Gonys: 2.09
Ant. nares: 2.05
Post. nares: 1.97 cm

Brood patches: 3

Bill Color: 10 YR 7/10

Eyering Color: 10YR 7/10

Irides: 5Y 8/2 Lower ½ almost even pigment ring - light pigment Color: 5Y 2.5/2

Legs: 2.5Y 7/4 (faded).

Remarks: Rt. P° 10-3 (2+1 molt) Stomach full of bread.

Douglas A. Bell   Catalog
1987

172244

DAB
181
Skel +
Rt Wing.

Larus occidentalis

Location: Coos Bay, nr. Jettys & Coast Guard Tower, Coos Co., Oregon

Date: 16 June 1987

Sex: ♂ L: 1.20 x 0.86 x 0.71   R: 1.06 x 0.53 x 0.52

Wt: 1,210 gms.   Fat: Good

Winglength: 43.2 cm (left)   Chord: 145 cm

Primary length: 10: 30.1 cm   7: 28.4 cm

9: 30.6   6: 26.9

8: 29.8   5: 25.1

Tail: 17.0 cm   No pigment shafts.

Tarsus: 6.70 cm (Rt.)   Toes: out: 6.07   mid: 6.17 cm   in: 4.75   Hal: 0.57

Headlength: 13.48 cm

Bill length: 6.32 cm   at post. nares: 3.80 cm

Bill width: 1.44 cm   at Gape: 3.50

Bill depth: Gonys: 2.25 cm

Ant. nares: 2.17 cm

Post. nares: 2.09 cm

Brood patches: 2 upper thumb-size & heavy refeathering.
1 middle refeathered w/ down.

Bill color: 2.5Y 7/8   Gony 10R 5/14

Eyering color: 10YR 7/10 in corners, 2.5Y 7/8 in central ring part.

Irides: 2.5Y 8/2. Heavy pigment in rear + lower 2/3

Legs: 5R 7/2

Remarks: left p° 10-1; (1 & 2 molt - but nearly finished)

Stomach full fish fillets. 1 frozen meal

Douglas A. Bell Catalog
1987

17-245

LAB 182 Larus occidentalis
Shel. + Lt. Wing

Location: Coos Bay, nr. Jettys + Coast Guard Tower, Coos Co., Oregon
Date: 16 June 1987
Sex: ♂ L: 1.58 X 0.87 X 0.86 R: 0.93 X 0.43 X 0.33
Wt: 1,360 gms Fat: Good
Winglength: 43.7 cm (left) Chord: 148.5 cm
Primarylength: 10: 29.5 cm - w 7: 28.6 cm w
9: 30.3 w 6: 26.5 w
8: ~~29~~. 30.1 w 5: 24.3 w
Tail: 16.0 cm ~~8~~. 4 of 12 pigmented shafts; but left outer 2 also w/1cm² pigmt. vane patches.
Tarsus: 6.95 cm (left) Toes: Out: 6.07 Mid: 6.12 cm
In: 4.65 Hal: 0.56 cm
Headlength: 13.25 cm
Bill length: 6.15 at post. nares: 3.73
Bill width: 1.44 at Gape: 3.40 cm
Bill depth: Gonys: 2.15 cm
Ant. nares: 2.12
Post. nares: 2.01
Brood patches: 3-finger tip size skin, rest refeathering + covered in down.
Bill color: 10 YR 7/10 Gony 10 R 5/14
Eyering color: 10 YR 7/10

Irides: 5 YR 8/3 Only ~~one~~ very few, very small diffuse pigment spots.
Legs: 5 R 7/2
Remarks: Left 1°° 10-4 (3-2-1 all molt, short), 2 frozen nails. Small fish vertebrae + ribs in gizzard.

Doug Bell
1987

Catalog

DAB
183
Skel. + Rt. Wing

Larus occidentalis

Location: Coos Bay, nr. Jettys + Coast Guard Tower, Coos Co. Oregon

Date: 16 June 1987

Sex: ♀ Lg. ovary: 9 ova ≥ 0.29 cm & + 5 ova ≥ 0.22 cm &

Wt: 990 gms   Fat: Good

Winglength: 41.5 cm (left)   Chord: 137.5 cm

Primarylength: 10: 29.0 cm w   7: 27.5 cm w
9: 29.6 cm w   6: 25.4 cm v
8: 28.6 cm w   5: 23.8 cm

Tail: 15.8 cm.

Tarsus: 6.15 cm (Rt.)   Toes: out: 4.44 mid: 5.85
in: 5.77 Hal: 0.53 cm

Headlength: 12.36 cm

Bill length: 6.00 cm   at Post. nares: 3.61 cm

Bill width: 1.30 cm   at Gape: 2.99 cm

Bill depth: Gonys 2.01
Ant. nares: 1.96
Post. nares: 1.98 - Bill has procellarid-like knob on it here.

Brood patches: 3

Bill Color: 10 YR 7/12   Gony 8.75 R 4.5/16.5

Eyering color: 10 YR 7/10. Touch of gony color in both corners.

Irides: 2.5 Y 8/4 Uneven, diffuse pigment in lower 1/3.
10 YR 4/2

Legs: ~~5R~~ 5R 7/2

Remarks: left p° 10-3 (2+1 molting, shot). Stomach full w/ fish remains. 1 frozen vial.

Doug Bell
1987

Catalog

172727

DAB

185

Skin +

Partial Skel.

Larus glaucescens

Location: Agate Beach Refuse Dump, 4.5 mi. N. Newport & Yaquina Bay Bridge, Lincoln Co., Oregon.

Date: 19 June 1987

Sex: ♀ 6 ova ≥ 0.28 cm ⌀ 4 ova ≥ 0.20 cm ⌀

Wt. ~~410~~ 885 gms   Fat: Poor

Winglength: 39.8 cm   Chord: ~~134.5~~ cm 131.0 cm

Primary length 10: 28 cm   7: 27.0 cm

9: 28.6 cm w   6: 25.2

8: 28.3 cm w   5: 23.0

Tail: 15.8 cm   5 out of 12 shafts pigmented.

Tarsus: 5.70 cm (Rt.)   Toes: In: 4.09 cm   out: ~~4.09 cm~~ 5.28   mid: 5.46 cm   Hal: 0.57 cm

Headlength: 12.01 cm

Bill length: 5.47 cm   @ post nares: 3.43 cm

Bill width: 1.08 cm   @ gape: 3.00 cm

Bill depth: Gonys: 1.89 cm

Ant Nares: 1.86

Post Nares: 1.72

Brood Patches: 3 - Thumb-sized.

Bill color: ~~5Y 7/10, 10YR 7/10~~, 10 YR 7/10   Gony: 10R 5/12

Eyering color: ~~Corner (rear) 5 RP 5/8, elsewhere 5RP 6/6~~

Corners: 10RP 6/6, elsewhere 10 RP 7/4

Irides: ~~5Y 8/2 Pigment diffuse, grainy throughout, more in lower 1/2; 10YR 3/1~~ 5Y 7/2; Pigment 10 YR 3/1; diffuse over lower 2/3 ⊙; thicker in left eye than right eye. Pupil-iris contrast

Legs: ~~5RP 5/6~~ 5R 6/3

Remarks:

2 frozen mice; Stomach, gizzard 3/4 full w/ garbage.

Doug Bell
1987

Catalog

172247

DAB 184 Shel. + Left Wing

Larus occidentalis

Location: Coos Bay, nr. off Coos Head Jettys + Coast Guard Tower, Coos Co., Oregon

Date: 16 June 1987

Sex: ♂ L: 1.15 x 0.92 x 0.85 R: 1.06 x 0.84 x 0.71

Wt: 1,120 gms. Fat: Moderate

Winglength: 43.0 cm (Rt.) Chord: 140.5 cm

Primary length: 10: 29.0 w 7: broken

9: 30.0 w 6: 26.3 w

8: broken 5: 24.8 w

Tail: 16.6 cm 12/12 shafts + vanes pigmt.

Tarsus: 6.67 (left) Toes: out: 5.90 mid: 6.17 in: 4.61 Hal: 0.51 cm

Headlength: 12.94 cm

Bill length: 5.93 at post. nares: 3.49

Bill width: 1.31 at gape: 3.57

Bill depth: Gonys 2.17 cm

Ant. nares: 2.06

Post nares: 1.95

Brood patches: 3, Middle thumb-sized.

Bill color: 10YR 7/10 Gony 10R 5/14

Eyering Color: 10YR 7/10

Irides: 2.5Y 8/2. Heavy diffuse pigment lower ½

Legs: 5R 7/3

Remarks: Rt. P° 10-3 (2+1 molt, short). Stomach full of fish remains. 1 frozen vial.

Doug Bell
1987

Catalog

DAB

187

Skeleton + Rt. Wing

Larus ocidentalis

Location: Agate Beach Refuse Dump, 4.5 mi. N. Newport + Yaquina Bay Bridge, Lincoln Co., Oregon

Date: 20 June 1987 Sex: ♀ 5 ova ≥ 0.30 cm ϕ; 8 ova ≥ 0.13 mm ϕ

Wt: ~~Sex~~: 915 gms Fat: Moderate

Winglength: 39.1 cm (left) Chord: 127.5 cm

Primary length: 10: 27.5 cm w 7: 25.4 cm

9: 27.8 w 6: 23.7

8: 26.7 5: 22.6

Tail: 15.1 cm 8 of 12 shafts/vanes pigmtd.

Tarsus: 5.77 cm (Rt.) Toes: Out: 5.35 cm Mid: 5.57 In: 4.06 cm Hal: 0.62

Headlength: 12.04 cm

Bill length: 5.43 cm @ post nares: 3.32 cm

Bill width: 1.32 cm @ gape: 3.20 cm

Bill depth: Gonys: .87 cm Post Nares: 1.76 cm

Ant. Nares: 1.84 cm

Brood Patches: Middle - thumb-sized; up rt - finger-tip; up left - smaller

Bill Color: 10 YR 7/12 Gony: 10 R 5/16

Eyering Color: 10 YR 7/10

Irides: 5 Y 8/4 Very little diffuse pigment lower 1/3

Legs: 5R 7/3

Remarks: left PO 10-4 (3 out, 1+2 molting). Few worms in body cavity; Stomach empty except for some paper.

Doug Bell
1987

Catalog

192228

DAB Larus occidentalis

188 Location: Agate Beach Refuse Dump, 4.5 mi. N Newport & Yaquina Bay Bridge, Lincoln Co., Oregon

Skel. + Rt Wing

Date: 20 June 1987 Wt: 940 gms

Sex: ♀ Ovary small, 5 ova ≥ 0.2 cm; rest < 1mm; whiteish. Fat: Moderate

Winglength: 39.4 cm (left). Chord: 135 cm

Primary length 10: 27.5 cm " 7: 26.5

9: 27.8 " 6: 24.9

8: 27.3 " 5: 23.4

Tail: 15.2 cm 6 of 12 shafts & vanes pigmtd.

Tarsus: 6.16 cm (left) Toes out: 5.62 mid: 5.84 IN: 4.43 Hal: 0.58

Headlength: 12.39 cm

Bill length: 5.58 cm @ Post. Nares: 3.57 cm

Bill Width: 1.24 cm @ gape: 3.07 cm

Bill Depth: Gonys: 1.96 cm Post Nares: 1.85 cm

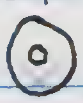
Ant Nares: 1.92 cm

Brood Patches: 3

Bill Color: 10YR 7/10

Eyering Color: 10 YR 7/10

Iris: 5Y 8/2 Very little diffuse pigment in lower 1/2: 5Y 4/2



Legs: 5R 6/3

Remarks: 2 small holes left foot innerweb, & small tumor ~~zw.~~ prox. joints of outer & inner toes, Left Wing P° 10-1; 3 molting. 2 frozen + ~~1 blood vial~~ vial. Stomach w/ long fish fin, some meal, 1 worm.

Doug Bell
1987

Catalog

172838

DAB h? *Larus occidentalis x glaucescens*

18 9 Location: Agate Beach Refuse Dump 4.5 mi N. Newport & Yaquina Bay Bridge, Lincoln Co., Oregon

Skel. + Date: 20 June 1987 Wt: 1,165 gms

Rt. Wing Sex: ♂ L: 1.22 x 0.88 x 0.67 cm R: 1.13 x 0.62 x 0.50 cm Fat: Poor

Winglength: 42.1 cm (left) Chord: 142 cm

Primary length 10 : 29.6 cm 7: 28.6 ✓

9 : 30.2 w 6: 26.7 w

8: 29.9 w 5: 23.7 w

Tail: 15.5 cm 8 of 12 w/pigm. shafts + large vane area (light),

Tarsus: 6.41 cm (left). Toes: Ant: 6.26 In: 4.86 Mid: 6.35 Hal: 0.62

Headlength: 13.07 cm

Bill length: 6.41 cm @ post. nares: 3.75 cm

Bill width: 1.36 cm @ gape: 3.42 cm

Bill depth: Gonys: 2.16 Post Nares: 2.05 cm

Ant Nares: 2.12

Brood Patches: 3

Bill Color: 10 YR 7/12

Eyering Color: 10 YR 7/10

Irides: 5Y 7/2 Very little pigment - as small blotch:

Legs: 5R 7/4

Remarks: Primary tips slightly lighter than for typ. WG.

Tumor on right foot - outer toe proximal joint. 1 cm ⌀, Left P° 10-3, (2 out; 1 Barely in molt). Stomach full with small minnows.

2 frozen + 1 blood vial.

Doug Bell 1987 Catalog

172839

DAB h? Larus occidentalis x glaucescens

190 Location: Agate Beach Refuse Dump, 4.5 mi. N. Newport + Yaquina

Shel + Bay bridge, Lincoln Co., Oregon

Rt. Wing

Date: 20 June 1987 Wt: 965 gms

Sex: ♀ lg ovary. 10 ova ≥ 0.20 cm ⌀ (whiteish) Fat: Moderate.

Winglength: 39.5 cm (left) Chord: 139 cm

Primary length 10: 28.2 cm 7: 27.0 cm

9: 28.5 W 6: 24.5

8: 27.9 5: 23.0

Tail: 15.6 cm 6 of 12 pigmt. shafts + 3 central w/some juv. barred flecks on vanes.

Tarsus: 6.21 cm (Right) Toes out: 3.84 IN: 4.44 mid: 5.88 cm Hallux: 0.72

Head length: 12.59 cm

Bill length: 6.06 cm @ post nares: 3.51 cm

Bill Width: ~~1.42 cm~~ 1.37 cm @ gape: 3.09 cm

Bill depth Gonys: 2.08 cm Post Nares: 1.88 cm

Ant Nares: 2.04 cm

Brood Patches: 3

Bill Color: 10YR 7/10

Eyering Color: 10YR 7/10 f

Irides: 5Y 8/2 Very little diffuse pigment.

Legs:

Remarks: Large tumor (1.70 cm ⌀) at joint between outer + middle toes, left foot. Left wing primaries 10-3, 2+1 out. Stomach empty.

1 frozen vial taken.

Doug Bell
1987

Catalog

M2229
Lo

DAB
191
Skel. + Rt. ~~Left~~ Wing

Larus occidentalis

Location: Agate Beach Refuse Dump, 4.5 mi. N. Newport & Yaquina Bay Bridge, Lincoln Co., Oregon

Date: 20 June 1987

Sex: ♂ L: 0.95 X 0.78 X 0.55 R: 0.70 X 0.61 X 0.47 cm

Wt: 1,280 gms Fat: Good

Winglength: 42.2 cm (left) Chord: 140.5 cm

Primary Length 10: 29.2 cm 7: 27.9 cm

9: 29.9 cm w 6: 26.1

8: 29.2 cm w 5: 24.4

Tail: All shafts pigmented. 15.9 cm

Tarsus: 6.99 cm (Rt). Toes: Out: 6.15 IN: 4.74 mid: 6.29 Hal: 0.80

~~Bill~~ Head Length: 13.30 cm

Bill Length: 6.12 cm @ post nares: 3.81 cm

" Width: 1.42 cm @ gape: 3.14 cm

" Depth - at Gonys: 2.23 Ant. Nares: 2.21 cm

Brood Patches: 3 Post Nares: 2.15

Bill Color: 10 YR 7/10 Gony 10 R 5/16

Eyering Color: 10 YR 7/10 f

Irides: 5 Y 8/3 Very little diffuse pigment lower 1/4 light.

Legs: 5R 6/3

Remarks: Toe joints swollen on ball of foot (L+R). 1 frozen wid. Stomach gizzard 1/4 full w/ fish meat.

Doug Bell
1987

Catalog

DAB | Larus occidentalis

192 | Location: Agate Beach Refuse Dump, 4.5 mi. N. Newport + Yaquina Bay Bridge, Lincoln Co., Oregon

Shel + Rt. Wing. | Date: 21 June 1987

Sex: ♂ L: 0.98 x 0.96 x 0.72 cm R: 0.97 x 0.71 x 0.57 cm

Wt: 1,100 gms Fat: Moderate

Winglength: 42.5 cm Chord: 140 cm

Primary length: 10 - 29.7 cm w 7 - 28.2 cm
9 - 30.1 " " 6 - 26.0 w
8 - 29.5 " " 5 - 24.1 w

Tail: 16.3 cm 6 of 12 shafts pigmntd.

Tarsus: 6.65 cm (left) Toes: Out: 5.97 IN: 4.45 Mid: 6.16 cm Hal: 0.60

Head Length: 13.27 cm

Bill Length: 6.21 cm at posterior nares: 3.85 cm

Bill Width: 1.42 cm at gape: 3.41 cm

" Depth at Gonys: 2.16 cm Ant Nares: 2.05 cm
Post Nares: 1.90 cm

Brood Patches: 3 slight refeathering.

Bill Color: 10YR 7/12

Eyering Color: 10 YR 7/10 more yellowish

Irides: 5Y 8/3. Heavy irreg. pigment blotches lower 2/3
Pigment Color 10 YR 3/1

Legs: 5R 6/3

Remarks: Left Wing Primaries 10-4, 2+1 (3 out, 1+2 molting). 1 frozen + 1 blood vial. Stomach had a few small bits of foil in it. Liver was strange - smaller left lobe + rubbery.

Doug Bell
1987

Catalog

DAB 193

Skin + Partial Skeleton

Larus occidentalis

Location: Agate Beach Refuse Dump, 4.5 mi. N. Newport & Yaquina Bay Bridge, Lincoln Co., Oregon

Date: 21 June 1987

Sex: ♀ ovary huge! 9 ova ≥ 0.45 cm ∅; 9 ova ≥ 0.40 cm 11 ova ≥ 0.3 cm ∅

Wt: 1,000 gms Fat: Good

Winglength: 40.5 cm (Right) Chord: 135.5 mm

Primary Length: 10 28.7 cm w 7 27.1 cm w
9 29.1 w 6 25.5 "
8 28.2 w 5 23.6 "

Tail: 15.4 cm 6 of 12 shafts pigmented.

Tarsus: 6.07 cm (~~R~~ Left). Toes - Outer: 5.44 cm Middle: 5.78 cm Inner: 4.30 cm Hallux: 0.52 cm

Headlength: 11.93 cm

Bill Length: 5.39 cm at post nares: 3.21 cm

" Width: 1.26 cm at gape: 3.42 cm

" Depth: at Gonys: 2.08 at ~~post~~ anterior nares: 2.03 cm
at post nares: 1.81 cm

Brood Patches: 3

Bill Color: 10YR 7/10

Eyering Color: 10YR 7/10 (yellower)

Irides: 5Y 8/2 Very little pigment (·⊙)

Legs: 5R 6/3

Remarks: Small holes in left outer (1) and inner (2) foot webbing. Ovary fixed in formalin. Blood & tissue vial. Stomach empty.

Doug Bell 1987 Catalog

172204

DAB *Larus occidentalis*

194 Location: Nestucca Spit, Nestucca Spit State Park, Tillamook Co., Oregon

Skel + Rt. Wing Date: 22 June 1987

Sex: ♀ 6 ova ≥ 0.27 cm ⌀; rest very small, small ovary

Wt: 960 gms Fat: Moderate.

Wing length: 39.8 cm (left) Chord: 133.5 cm

1° Length 10 28.4 cm broken tip 7 26.8 cm w

9 29.1 " 6 25.3

8 28.4 w 5 ~~24.~~ 23.8

Tail: 15.1 cm 6 of 12 shafts pigmented.

Tarsus: 5.89 cm Rt. Toes: Out: 5.56 IN: 4.21 Mid: 5.64 Hal: 0.60

Headlength: 12.03 cm

Bill length: 5.50 at post nares: 3.52

" width: 1.17 at gape: 3.06

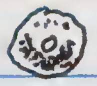
" Depth - at gony: 1.95 at ant. nares: 1.90

at post. nares: 1.85

Brood Patches: 3 Middle slight refeathering

Bill color: 10YR 7/12 Gony 10R 5/14

Eyering Color: 10YR 7/10 ~Y,

Irides: 7.5Y 8/2 Pigment 10YR 3/1 diffuse irreg, "light," ~~even~~ lower half  grayed over.

Legs: 5R 7/2

Remarks: Left primaries 10-3; 2+1 molting. Nail missing on rt. hallux

2 frozen vials. Stomach full w/ fish -

Doug Bell
1987

Catalog

182225

DAB — *Larus occidentalis*

195 — Location: Nestucca Spit, Nestucca Spit State Park, Tillamook Co., Oregon

Skel. + — Date: 22 June 1987

Rt. Wing — Sex: ♂ L: 0.84 x 0.68 x 0.37 R: 0.60 x 0.50 x 0.31

Wt: 1,185 gms Fat, Moderate

Winglength: 41.4 cm (Left) Chord: 141 cm

P° length: 10 28.9 cm broken 7 28.0 cm
9 29.7 cm " 6 26.2 cm
8 29.3 cm w 5 24.5 cm

Tail: All shafts pigmtd. Juv. blotches on 9 of 12 vanes 15.6 cm

Tarsus: 6.77 cm (left) Toes Out: 5.94 In: 4.58 Mid: 6.19 Hal: 0.70

Head length: 13.22 cm

Bill length: 6.28 at post nares: 3.91
" Width: 1.47 at gape: 3.54
" Depth at gony: 2.21 ant nares: 2.16
post nares: 2.05

Brood Patches: 3 gigantic ones!

Bill Color: 10 YR 7/10 (f)

Eyering Color: 10 YR 7/10 (f); Gony color front + rear corners

Irides: 7.5 Y 8/4 Very little, diffuse irreg. pigment lower 1/3, 2 blotches rear

Legs: 5R 6/4

Remark: 1 blood vial taken, left P° 10-4; 1 (3,2 molting)
Stomach very full w/ fish

Doug Bell
1987

Catalog

DAB 196 Skel. + Left Wing.

Larus occidentalis

Location: Nestucca Spit, Nestucca Spit State Park, Tillamook Co., Oregon

Date: 22 June 1987

Sex: ♂ L: 0.99 X 0.64 X 0.40 R: 0.59 X 0.39 X 0.37 cm

Wt: 1,310 gms Fat: Good

Winglength: 41.0 cm (flat) chord: 140.5 cm

Primary length 10: 29.2 cm w 7: 28.1 cm
9: 29.9 cm w 6: 26.5
8: 29.7 cm 5: 24.7

Taillength: 16.3 cm

Tarsus 6.68 cm (left) Toes: IN: 4.76 MID: 6.24 OUT: 6.18 HAL: 0.69

Headlength: 13.36

Bill length: 6.37 @ post nares: 3.85

Bill width: 1.37 @ gape: 3.36

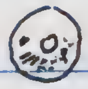
Depth: Gonys: 2.21
Ant Nares: 2.14 Post Nares: 2.01

Brood Patches: 3

Bill Color: 10 YR 7/12

Eyering Color: 10 YR 7/10 Gony blotch near.

Irides: 7.5 Y 8/4. Very little, diffuse, irreg pigm. lower ½

 one blotch near

Legs: 5R 6/4

Remarks: Rt. Wing P° 10-4, 2+1 (3 out?), 1 frozen vial,
Stomach extremely full w/ crab.

Doug Bell
1987

Catalog

DAB 197

Shel. + Left Wing

Larus occidentalis

Location: Tillamook Spit, near Tillamook Bay, ~~Lincoln~~ Tillamook Co., Oregon

Date: 23 June 1987

Sex: ♀ Ovary small ova ≤ 0.12 in d

Wt: 940 gms

Fat: Good

Winglength: 39.5 (Rt.) Chord: 132 cm

Primary Length: 10: 28 b. 7: 27.2

9: 28.5 w 6: 25.6

8: 28.0 5: 23.7

Taillength: 15.4 cm

Tarsus: 5.75 Rt.

Toes: IN: 4.08 MID: 5.54 OUT: 5.45 HAL: 0.72

Headlength: 11.96

Bill length: 5.42 @ post. nares: 3.52

Bill width: 1.29 @ gape: 3.05

" depth: Gonys: 2.01

Ant. Nares: 1.92 Post Nares: 1.74

Bill Color: 10YR 7/10 (+) Gony 10R 5/14

Eyering Color 10YR 8/10 Touch of 10YR 7/14 in rear corner

Iris: 7.5Y 8/2 Very little diffuse, sandy pigment throughout

Legs: 5R 8/2

Remarks: 3 Brood Patches. Stomach full w/ small fish

1 frozen vial.

Doug Bell
1987

Catalog

DAB 198 Skel. + Rt Wing

Larus occidentalis

Location: Tillamook Spit, near Tillamook Bay, ~~Lincoln~~ Tillamook Co., Oregon

Date: 23 June 1987

Sex: ♀ 5 ova ≥ 0.25 mm, most others < 0.10 mm d.

Wt: 910 gms — Fat: Good

Winglength: 39.6 cm / left — Chord: 129.5 cm

P° length 10: 28.1 cm — brk. — 7: 26.5 cm

9: 28.3 — w — 6: 24.3

8: 28.0 — 5: 23.0

Taillength: 15.0 cm — 1 of 12 shafts pigmt'd.

Tarsus: 6.36 cm (Rt.) — Toes: ant: 5.30 — IN: 4.29 — Mid: 5.58 — Hal: 0.69

Headlength: 12.05

Bill length: 5.38 — @ post nares: 3.55

" width: 1.32 — @ gape 2.45

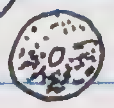
" depth: Gonys: 2.07

Ant Nares: 2.00 — Post Nares 1.85

Bill color: 10YR 7/10. Gony 8.75 R 4.5/16.5

Eyering Color: 10YR 7/10 (f). Touch of 10YR 7/14 in both corners

Irides: 7.5Y 7/2. Grainy pigmt. lower ½: 7.5Y 3/2; diffuse sandy upper ½.



Legs: 5R 6/3

Remarks: Brood Patches: 3 slight refeathering. Left P° 10-4, 2+1. Stomach w/ small fish verts + ribs. 1 frozen vial.

Doug Bell
1987

Catalog

DAB Larus occidentalis

199 Location: Tillamook Spit, near Tillamook Bay, ~~Lincoln~~ Tillamook Co., Oregon

~~Skel. +~~ ~~Left Wing~~ ~~Right~~

Skin + Partial Skel.

Date: 23 June 1987

Wt: 915 gms   Fat: Good

Sex: ♀ 5 ova ≥ 0.25 cm ; 11 ≥ 0.18 cm &

Winglength: 39.4 cm (left)   Chord: 132 cm

1° length 10: 28.6   7: 27.3

9: 29.0   6: 25.9

8: 28.5   5: 24.1

Tail length: 15.6 cm   6 of 12 pigmtd.

Headlength: 12.22

Bill length: 5.52   @ post nares: 3.67

" width: 1.21   @ gape: 2.45

" depth: Gonys: 2.11

Ant Nares: 1.99   Post Nares: 1.89

Brood Patches: 3

Bill Color: 10YR 7/12   Gony 8.75R 4.5/16.5

Eyering Color: 10YR 7/10   Touch of 10YR 7/14 in corners

Irides: 7.5Y 8/6. Very little, diffuse pigmt. lower 1/3.

Legs: 5R 7/3.

Remarks: Stomach Empty

Tarsus: 6.21 (left)   Toes IN: 4.22 MID: 5.69 OUT: 5.26 HAL: 0.84

Few worms in body cavity - near kidneys, 1 frozen vial.

Doug Bell
1987

Catalog

172822
DAB
200
Skeleton +
Left Wing

h? *Larus occidentalis × glaucescens*

Location: East Sand Island, near Chinook, WA; Clatsop Co., Oregon.

Date: 27 June 1987

Sex: ♂ L: 0.67 x 0.44 x 0.37 R: 0.59 x 0.34 x 0.31 cm

Wt: 1,020 gms Fat: Poor

Winglength: 43.2 cm (Right) Chord: 143 cm

P° length: 10: 28.8 cm w 7: 27.4 cm

9: 29.1 " w 6: 25.5

8: 28.8 " w 5: 24.7

Tail length: 16.0 cm 4 of 12 shafts pigmtd. + 3 vanes w/ small flecks

Head length: 12.93 cm

Bill length: 5.99 cm @ post nares: 3.75 cm

" width: 1.31 @ gape: 3.26

" depth: Gonys: 2.27 cm

Ant Nares: 2.12 post nares: 1.92

Brood Patches: 3

Bill Color: 5 Y 7/10 Gony 10R 5/16

Eyering Color: 5Y 7/8 touch of 10YR 7/10 in each corner.

Irides: 7.5 Y 7/2: Pigment thick, sandy over lower 1/2; scattered in upper 1/2

Legs: 5R 7/3

Remarks: Tarsus: 7.14 cm (left) Toes: IN 4.80 OUT 6.04 MID 6.10 HAL: 0.55

2 blood mils Rt. Wing P° 10-5; 3-1 (4 out). Stomach empty.

Doug Bell
1987

Catalog

172823
DAB h? *Larus occidentalis* x *glaucescens*
201 Location: East Sand Island, near Chinook, WA; Clatsop Co., Oregon.
Skeleton + left Wing
Date: 27 June 1987
Sex: ♂ L: 0.99 x 0.67 x 0.54 R: 0.93 x 0.55 x 0.50
Wt: 1,165 gms Fat: Moderate
Winglength: 44 cm (Rt.) Chord: 144.5 cm
1° length: 10: 30 cm w 7: 28 cm w
9: 30.5 " w 6: 26.1 w
8: 29.5 " w 5: in molt!
Tail length: 16.3 cm 4 of 12 shafts barely pigmented. Head length: 13.22 cm
Bill length: 6.09 cm @ post nares: 3.70 cm
" width: 1.42 cm @ gape: 3.44 cm
" depth: Gonys: 2.10
Ant Nares: 2.04 Post Nares: 1.91
Brood Patches: 3 Upper 2 thumb size, Middle finger-tip size; refeathering
Bill Color: 5Y 7/10 Gony 10R 5/16
Eyring Color: 2.5Y 8/8
~~Head~~
Sides: 7.5Y 8/2 ~~2.5Y 8/8~~ Pigmt. grainy uniform over lower 2/3: 5Y 2.5/1
Legs: 5R 7/2
Remarks: 2 blood vials
Tarsus: 6.81 cm (Rt.) Toe IN: 4.82 OUT: 6.10 MID: 6.51 HAL: 0.51 cm
Incomplete right inner foot web. Stomach full of fish.

Doug Bell
1987

Catalog

1322.11

DAB 202 Larus occidentalis

Location: East Sand Island, near Chinook, WA.; Clatsop Co., Oregon

Date: 27 June 1987

Sex: ♀ 2 ova ≥ 0.44 + 6 ova ≥ 0.20 cm

Wt: 870 gms Fat: Good

Winglength: 41.2 cm (Rt.) Chord: 136.5 cm

P° length 10: 29.2 cm broken tip 7: 27.6 cm

9: 29.7 cm " 6: 25.8

8: 29.1 cm 5: 24.1

Taillength: 15.9 cm 6 of 12 shafts pigmtd.

Tarsus: 6.34 cm (left). Toes: IN: 4.30 cm OUT: 5.57 HALL: 0.69 MID: 5.70

Headlength: 12.15 cm

Bill length: 5.63 @ post nares: 3.42

" width: 1.17 @ gape: 2.89

" depth: Gonys: 1.92

Ant Nares: 1.87 Post Nares: 1.77

Brood Patches: 3

Bill Color: ~~[illegible]~~ 10 YR 7/10 Gony 10 R 5/16

Eyering Color: 10 YR 7/10 - (+); but esp. in corners. Some tendancy to 2.5 Y 7/8.

Irides: 7.5 Y 8/4. Very fine, sandy, dispersed pigment throughout

Legs: 5 R 6/4. Incomplete webs both feet, esp. right foot

Remarks: Right Primaries 10-4, 2.1; 3 out. Middle toe joint swollen, hole in left foot outer webbing. Stomach empty. 1 frozen snail

Doug Bell 1987 Catalog

1727?

DAB 203 Larus occidentalis

Skeleton & Rt. Wing

Location: East Sand Island, near Chinook, WA.; Clatsop Co., Oregon.

Date: 27 June 1987

Sex: ♀ 3 ova ≥ 0.26 ~~cm~~ cm; 2 ova ≥ 0.10 cm d

Wt: 915 gms Fat: Moderate

Winglength: 40.1 cm (left) Chord: 136.5 cm

P° length: 10: 27.2 cm 7: 26.4 cm

9: 27.9 6: 24.8

8: 27.7 5: 23.1

Taillength: 15.2 cm 6 of 12 shafts & ~~vanes~~ vanes pigmented.

Tarsus: 5.92 cm (Rt). Toes: IN: 4.39 HAL. 0.62 OUT: ~~4.39~~ 5.54 MID: 5.72

Headlength: 12.24 cm

Bill length: 5.62 @ post nares: 3.55 cm

" width: 1.20 cm @ gape: 3.05 cm

" depth: Gonys: 2.02 cm

Ant. Nares: 1.89 Post Nares: 1.77

Brood Patches: 3

Bill Color: 10 YR 7/10 10 R 5/16

Eyering Color: 10 YR 7/10 corners / 2.5 Y 7/8 in antral part

Irides: 7.5 Y 7/4 Pigment 2.5 Y 3/2 - uneven dispersal lower ½

grainy

Legs: 5 R 7/4

Remarks: 1 frozen vial. Stomach empty except for a few fish vertebrae & ribs. Few worms.

Doug Bell
1987

Catalog

172724

DAB
204
Skeleton + Rt. Wing

Larus glaucescens

Location: East Sand Island; near Chinook, WA; Clatsop Co., Oregon.

Date: 28 June 1987

Sex: ♀ 2 ova ≥ 0.37 cm ⌀ + 8 ova ≥ 0.15 cm ⌀

Wt: 1000 gms   Fat: Good

Winglength: 40.3 cm (left)   Chord: 135.5 cm

1° length: 10 - 28.4 cm   7 - 26.5 cm
9 - 28.8 "   6 - 25.0 cm
8 - 28.2 "   5 - out (molt) - .

Taillength: 15.3 cm   3 of 11 shafts/vanes barely pigmntd.

Tarsus: 6.13 cm (Right)   Toes: IN: 4.23   MID: 5.62   OUT: 5.37   HAL: 0.53

Headlength: 12.12 cm

Bill ~~width~~ length: 5.71   at post nares: 3.47 cm
" width: 1.18   at gape: 3.05
" depth: Gonys: 2.00
Ant. Nares: 1.91   Post Nares: 1.77

Brood Patches: 3

Bill Color: Streaks of 10YR 7/10 + 5Y 7/10. Gony 8.75R 4.5/16.5

Eyering Color: 5RP 6/2 in center, 5RP 6/4 in corners

Iris: 5Y 8/2. Pigmnt. graining in lower 2/3, some in upper 1/2; irregular.

Legs: 5R 6/3

Remarks: 1 Blood vial. Left primaries 10-6, 3-1 (4+5 molting)
1 frozen vial; Stomach full of fish.

Doug Bell 1987 Catalog

172725
DAB
205
Skeleton + Rt. Wing

Larus glaucescens

Location: East Sand Island, near ~~Ilwaco~~ Chinook, WA; Clatsop Co., Oregon

Date: 28 June 1987

Sex: ♂ L: 1.33 x 0.89 x 0.72 R: 1.17 x 0.86 x 0.79 cm

Wt: 1,175 gms Fat: Moderate

Winglength: 43.5 cm Chord. 148 cm

P° length: 10: 30.8 cm w 7: 28.8 cm w

9: 31.3 " 6: 27.0 "

8: 30.1 " 5: 24.1 "

Taillength: 18.2 cm 5 of 12 shafts + vanes pigmt.

Tarsus: 6.52 cm (left) Toes IN - 4.40 OUT - 5.82 MID - 6.06 HAL - 0.76

Headlength: 12.89 cm

Bill length: 5.77 at post nares: 3.54

" width: 1.35 at gape: 2.91

" depth: Gonys: 2.21

Ant. Nares: 2.12 Post Nares: 2.07

Brood Patches: 3 slight refeathering

Bill Color: 5Y 7/10 Gony 5YR 7/4 + 10R 5/16 (central portion)

Eyering Color: 5RP 6/4 in corners; 5RP 8/2 central portion

Iris pigment thick, covers most lower 4/5.

Irides: Pigment 10YR 2/1; iris - 7.5Y 8/2

Legs: 5R 6/4

Remarks: 1 blood vial. Incomplete web, left inner foot web; 3 small holes in outer web, left foot. Right foot outer web w/ divit. left wing primaries 10-5, 3<2, 1 (4 just coming in). Stomach full of small fish.

Doug Bell
1987

Catalog

192213

DAB

206

Skeleton + Rt. Wing

Larus occidentalis

Location: East Sand Island, near Chinook, WA; Clatsop Co., Oregon

Date: 28 June 1987

Sex: ♀ 6 ova ≥ 0.21 cm ø ; 3 ova ≥ 0.14 cm ø

Wt. 1,025 gms   Fat: Poor

Winglength: 40.1 cm   Chord: 134 cm

P° length: 10: 28.0 cm   7: 27.0 cm

9: 28.7   6: 25.1

8: 28.3   5: 23.5

Taillength: 15.5 cm 8 of 12 shafts + vanes pigmtd.

Tarsus: 6.06 cm   Toes: out - 5.27, In - 4.19, Mid - 5.50, Hal. 0.59

Headlength: 11.95 cm

Bill length: 5.49 cm   at post nares: 3.36 cm

" width: 1.23   at gape: 3.22

" depth: Gonys: 1.94 cm

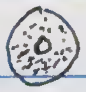
Ant Nares: 1.93   Post Nares. 1.38

Brood patches: 3 refeathering

Bill Color: 10YR 7/12   Gony 10R 5/16

Eyering Color: 10YR 7/10, esp. corners; ~faded in center.

Irides: 7.5Y 8/4 Grainy pigmt. scattered thruout, > in lower 1/2.



Pigmt. 5Y 2.5/1

Legs:

Remarks: Left P° 10-3 (2+1 molting) Stomach was full of fish ooze.

Doug Bell
1987

Catalog

972807
DAB
207
Skeleton +
Left Wing

Larus glaucescens x occidentalis ♀?

Location: Pine Island, Willapa Bay, Pacific Co., Washington

Date: 30 June 1987

Sex: ♀ large ovary: 3 ova ≥ 0.48; 6 ova ≥ 0.31 cm; 5 ova ≥ 0.21 cm ♀

Wt: 1,005 gms Fat: 1

Winglength: 41.1 cm (Right) Chord: 136.5 cm

p° length 10 - 29.2 cm w 7 - 27.0 cm

9 - 29.3 " w 6 - 25.3

8 - 28.3 " 5 - 23.1

Tail length: 15.30 cm 2 of 12 shafts pigmtd.

Tarsus: 5.94 cm (Left) Toes out - 5.31 cm mid - 5.45 IN - 4.08 Hal - 0.56

Headlength: 12.12 cm

Bill length: 5.78 at post nares: 3.75

" width: 1.14 at gape: 2.92 cm

" depth: Gonys - 1.92

Ant. Nares: 1.87 Post. Nares: 1.73

Brood patches: 3

Bill color: 5Y 7/10

Eyering color: 5RP 6/6 corners, + 5RP 6/4 center

Irides: 10YR 8/2. Pigmt. even sandy lower ½. 10YR 2/1.

Some pigment upper ½

Legs: 5R 7/4

Remarks: Right p° 10-5, 3<2<1 (4 just sheathing). Stomach very full w/ fish meat. 1 frozen + 1 EtOH vial

Doug Bell
1987

Catalog

172721

DAB

208

Skeleton + Rt. Wing

Larus glaucescens

Location: Pine Island, Willapa Bay, Pacific Co., WA

Date: 30 June 1987

Sex: ♂ L: 0.87 x 0.65 x 0.56 cm R: 0.61 x 0.41 x 0.25 cm

Wt: 1,175 gms Fat: Moderate

Winglength: 43.0 cm (left) Chord: 143 cm

Primary Length: 10 - 29.4 cm 7 - 28.1 cm

9 - 30.1 6 - 26.0

8 - 29.3 5 - 24.7

Tail length: 16.9 cm 3 of 12 shafts pigmented.

Tarsus: 6.71 (Right) Toes: IN: 4.68 OUT: 5.78 MID: 5.88 HAL: 0.54

Headlength: 13.46 cm

Bill length: 6.29 cm at post. nares: 3.83 cm

Bill width: 1.31 at gape: 3.23 cm

" depth: Gonys: 2.23

Ant. Nares: 2.15 Post Nares: 2.11

Bill Color: 5Y 7/10

Eyering Color: 5RP 5/4

Iridy. 10YR 8/1 Pigment thick, even lower 2/3: 10YR 7/1

Legs: 5R 6/4

Remarks: Brood patches: 3

Left wing P° 10-5, 3-1 (4 just appearing in sheath. Stomach empty except for a few fish bones. Heavy worm infestation kidneys & body cavity. 1 frozen + 1 EtOH vial.

Doug Bell
1987

Catalog

172207

DAB

Larus occidentalis

209 Location: Pine Island, Willapa Bay, Pacific Co., WA.

Skeleton + Rt. Wing

Date: 30 June 1987

Sex: ~~♂~~ ♀ Ovary very small one ova ≥ 0.18; rest ≤ 0.10 cm

Wt: 895 gms Fat: Moderate

Winglength: 39.0 cm (left) chord: 136.5 cm

Primary length 10 - 27.7 cm 7 - 25.8 cm w

9 - 28.0 " w 6 - 24.9 cm

8 - 27.6 w 5 - 22.9

Tail length: 14.9 cm; 12 of 12 shafts pigmented; Some imm flecking (1+) on all vanes.

Tarsus: 6.12 cm (Right) Toes IN: 4.34 Out: 5.61 Mid: 5.85 Hal: 0.74

Headlength: 11.91 cm

Bill length: 5.76 at post. nares: 3.52

Bill width: 1.35 cm at gape: 3.35 cm

Bill depth: Gonys: 2.02 cm

Ant. Nares: 1.93 Post Nares: 1.77

Brood Patches: 3 - but all refeathered!

Bill Color: 10 YR 7/12 Gony 10 R 5/16

Eyering Color: 10 YR 7/12

Irides: 7.5Y 8/2. Very loose, sandy pigment scattered thruout. ~~Legs~~ light!

Legs: 5R 7/3

Remarks: Touch of brown in primary coverts; trace of dark in bill tip. left wing primaries 10-5; 1 (~~5~~ < 3 < 2 + in molt). Stomach empty except for a few ~~fish bones (small)~~. invert. crustacea parts + annelid mouth parts. 1 frozen + 1 EtOH vial.

Doug Bell   Catalog
1987

172808

DAB

~~[illegible]~~

211

Skin & partial skel.

h? *Larus occidentalis x glaucescens*

Location: Pine Island, Willapa Bay, Pacific Co, Washington.

Date: 30 June 1987

Sex: ♂ L: 0.77 x 0.57 x 0.36 R not found

Wt: 1,305 gms   Fat: Moderate

Winglength: 42.8 cm (left)   Chord: 141 cm

Primary length 10 - 30.1 cm   7 - 28.3 cm

9 - 31.0   6 - 26.4

8 - 30.5   5 - 24.1

Tail length: 17.2 cm   12 of 12 shafts pigmtd.

Tarsus: 6.48 cm (left).   Toes IN: 4.55   OUT: 5.53   Mid: 6.12   Hal: 0.79

Brood Patches: 3 - refeathering

Head length: 13.21 cm

Bill length: 6.41   @ post. nares: 3.74

Bill width: 1.31 cm   @ gape: 3.26

" depth: Gonys: 2.11

ant nares: 2.11   Post nares: 1.98

Bill Color: 10 YR 7/10   Gony: 10 R 5/16

Eyering Color: 10 YR 7/10

Irides: 7.5 Y 8/2. Thick irregular pigment lower 2/3, blotchy 10 YR 2/2.

Legs: 5 R 6/4

Remarks: 1 frozen vial + 1 EtOH tissue vial. Stomach very full with fish parts. Couple worms by kidneys

Doug Bell
1987

Catalog

DAB | *Larus occidentalis*

210 | Location: Pine Island, Willapa Bay, Pacific Co, WA

Shel. + | Date: 30 June 1987

Rt. Wing | Sex: ♀ 3 ova ≥ 0.25 cm ⌀; 7 ova ≥ 0.15 cm ⌀

Wt: 950 gms Fat: Good

Winglength: (left). 40.7 cm Chord: 138 cm

P° Length 10 - 29.1 cm 7 - 27.7 cm

9 - 30.7 cm 6 - 25.4

8 - 29.2 cm 5 - 23.8

Taillength: 15.0 cm 6 of 12 shafts pigmtd.

Tarsus: 6.18 cm (right) Toes: IN: 4.45 OUT: 5.80 MID: 5.91 Hal: 0.69

Headlength: 11.99 cm

Bill length: 5.47 at post nares: 3.37

" width: ~~1.33~~ 1.25 cm at gape: 2.82

" depth: Gonys: 2.00 cm

Ant. Nares: 1.91 Post Nares: 1.80

Brood Patches: 3 - refeathering

Bill Color: 10 YR 7/10 Gony 10R 5/16

Eyering Color: 10 YR 7/10 Gony color near corner.

Irides: 7.5 Y 8/4. No pigment.

Legs: 5R 7/4

Remarks: left Wing P° 10-4; 1 (2 in sheath, 3 out).

Stomach Empty. 1 frozen + 1 EtOH vial.

Doug Bell
1987

Catalog

172809

DAB h? *Larus occidentalis × glaucescens*

212 Location: Pine Island, Willapa Bay, Pacific Co., Washington.

Skeleton + Left Wing

Date: 30 June 1987 Sex: ♂ R: 0.64 × 0.40 × 0.35 L: 0.86 × 0.58 × 0.37 cm ϕ

Wt: 1,210 gms Fat: Moderate

212 Winglength: 43.2 cm (Right) Chord: 143.5 cm

P° ~~[illegible]~~ length 10 - 29.7 cm w 7 - 28.3 cm

9 - 30.4 " 6 - 26.1

8 - 29.8 " 5 - 25.0

Tail length: 17.2 cm 10 of 12 shafts pigmtd.

Tarsus: 6.58 cm (Right) Toes IN: 4.59 OUT: 5.88 MID: 6.07 HAL: 0.63

Headlength: 13.51

Bill length: 6.45 at post nares: 4.00 cm

" width: 1.31 at gape: 3.14 cm

" depth Gonys: 2.27

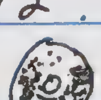
Ant Nares: 2.17 Post Nares: 2.06

Brood Patches: 3

Bill Color: ~~Streaks~~ 5Y 7/10 + faded 10 YR 7/10 Gony 10R 5/16

Eyering Color: 10 YR 7/10 corners; other faded → 5Y 8/8

Irides: 10 YR 8/2. Thick graing pigment lower ~~2/3~~ 4/5 : 10YR 7/2



Legs: 5R 6/3

Remarks - Right wing P° 10-5; 3, 2, 1 (4 out). Few worms. Stomach very full of fish parts. 1 frozen + 1 EtOH vial.

Doug Bell
1987

Catalog

172785

DAB	*Larus occidentalis* or h? occidentalis x glaucescens
213	Location: Goose Island, Grays Harbor, Grays Harbor Co., Washington.
Skeleton + Rt. Wing	

Date: 1 July 1987

Sex: ♂   L: 1.37 X 1.07 X 0.86   R: 0.98 X 0.72 X 0.55

Wt: 1,180 gms.   Fat: Moderate.

Winglength: (left) 43.7 cm   Chord: 146 cm

P° length 10 - 30.6 cm   w   7 - 29.5 cm

9 - 31.5   w   6 - 27.9

8 - 31.1   w   5 - 25.4

Tail length: 16.7 cm   2 of 12 shafts pigmented.

Head length: 13.25 cm

Bill length: 6.49   @ post nares: 3.87

" width: 1.45   @ gape: 3.42

" depth - Gonys: 2.23

ant. Nares: 2.22   Post Nares: 2.12

Brood Patches: 3

~~Bill color~~: Tarsus: 6.73 (Rt.)   Toes: Out: 5.89 IN: 4.37   Mid: 6.12 Hal: 0.63

Bill Color: 10YR 7/12

Eyering Color: 10YR 7/10

Irides: 7.5Y 8/4. Scattered blotchy pigment lower 1/2. 10YR 2/1

Legs: 5R 5/4

Remarks: left wing P° 10-4; 1 (3+2 emerging from sheaths, 1 molt). Right outer toe joint swollen. Stomach empty except for 4 small glass pieces. 1 frozen vial

Doug Bell
1987

Catalog

172787

OAB

2 15
skeleton +
Left Wing.

L? or L. occidentalis   *Larus occidentalis x glaucescens*

Location: Goose Island, Grays Harbor, Grays Harbor Co., WA.

Date: 1 July 1987

Sex: ♀ 7 ova ≥ 0.18 cm ϕ; 17 ova ≥ 0.10 cm ϕ

Wt: 960 gms   Fat: Good

Winglength: 39.9 cm (Rt.)   Chord: 132.5 cm

P° length 10 – 28.5 cm   7 – 26.8
9 – 29.0   w   6 – 25.5
8 – 28.5   5 – 24.5 (left wing; 5 out on rt. wing)

Tail length: 15.3 cm   6 of 12 shafts pointed.

Head length: 12.11 cm (very tip gone).

Bill length: 5.62   @ post nares: 3.41

" width: 1.16   @ gape: 3.06

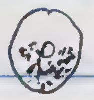
" depth: Gonys: 2.02

Ant. Nares: 1.95   Post Nares: 1.83

Brood Patches: 3

Bill Color: 10YR 7/10 5Y/ 7/10   Gony: 10R 5/16

Eyering Color: Corners 10YR 7/10 ; mid – 10YR 7/8

Irides: 7.5Y 8/2. Blotchy pigment lower ½: 10YR 2/1 Thick grains 

Legs: 5R 6/4

Remarks: Tarsus: 6.26 cm (Rt). Toes: Inn. 4.31 Ant – 5.59 Mid – 5.69 Hal – 0.69

Right inner toe, ~~no~~ central joint swollen. Left foot inner web split long in two places. Rt. Wing P° 10-6 (5-4 just coming down) 3-1 3 still in sheath. Several segmented worms around kidneys.

1 frozen + 1 EtOH vial.

Doug Bell
1987

Catalog

172786

DAB 214

Skeleton + Rt. Wing

L Larus occidentalis x glaucescens

Location: Goose Island, Grays Harbor, Grays Harbor Co., Washington

Date: 1 July 1987

Sex: ♂ L: 0.68 x 0.47 x 0.38 R: 0.65 x 0.45 x 0.30

Wt. 1,410 gms Fat: Good

Winglength: 43.5 cm (left). Chord: 153.5

P^{o} length 10 - 30.1 cm 7 - 28.9 cm w
9 - 31.0 w 6 - 27.0
8 - 30.3 w 5 25.8

Tail length: 16.7 cm 6 of 12 shafts pigmtd.

Tarsus: 6.52 cm (Rt.) Toes: Out: 6.37 Mid: 6.60 cm
Inn: 4.80 Hal: 0.73

Head length: 13.65

Bill length: 6.30 @ post nares: 4.00

" width: 1.35 @ gape: 3.36

" depth Gonys: 2.25
Ant Nares: 2.17 Post Nares: 1.90

Brood Patches: 3 Middle more refeathered than other 2, but still good patches.

Bill Color: 10YR 7/12

Eyering Color: Corners 10YR 7/10 ; Middle 5Y 7/10

Irides: 7.5Y 8/2. Even grainy/sandy pigmt lower half, thick. Upper half diffuse.

Legs: 5R 6/4

Remarks: Left wing P^{o} 10-5, (4 out) 3 just emerging from sheath / 2-1.
Stomach jammed full w/ crabs & shells! 1 frozen & 1 EtOH vial

Doug Bell
1987

Catalog

172705

DAB

217

Skeleton + left wing.

Larus glaucescens

Location: Goose Island, Grays Harbor, Grays Harbor Co., Washington.

Date: 1 July 1987

Sex: ♀ 5 ova ≥ 0.23 cm ⌀. 15 ova ≥ 0.15 cm ⌀.

Wt: 955 gms Fat: Poor

Winglength: 41.5 cm (Rt.) Chord. 139.5 cm

Primary length 10 - 29.2 cm w 7 - 27.8

9 - 29.8 w 6 - 25.7

8 - 29.3 5 23.4

Tail length - 16.7 cm - 4 of 12 shafts pigmented.

Tarsus - 5.88 cm (left) Toes: OUT 5.50 MID 5.59 IN 4.19 HAL: 0.58

Headlength: 12.36

Bill length - 5.64 at post nares: 3.44

" width 1.31 at gape: 3.22

" depth: Gonys: 1.96

Ant. Nares: 1.88 Post Nares. 1.75

Brood Patches: 3

Bill Color: 5 Y 7/10; some 10 YR 7/10 streaking.

Eyering Color: 5 RP 6/4

Irides: 10YR 7/2. Heavy grainy pigment throughout: 10 YR 2/2, very little background visible upper quarter

Legs: 5R 6/4

Remarks. Rt. Wing P° 10-5; 3-1 (4 just coming down sheath, 3 molting) Stomach full of small fish. 2 Blood vials, 1 EtOH, 1 frozen vial.

Doug Bell 1987

Catalog

172788

DAB Larus occidentalis

216 Location: Goose Island, Grays Harbor, Grays Harbor Co., WA

Skeleton + left wing.

Date: 1 July 1987

Sex: ♀ 13 ova 2 0.21 cm ♀

Wt: 935 gms. Fat: Good

Winglength: 39.7 cm (Rt.) Chord: 135.5 cm

P° length 10 - 28.5 cm w 7 - 26.7 cm

9 - 28.6 w 6 - 25.0

8 - 27.9 w 5 - 22.4 w

~~Head~~ Taillength - 15.5 cm 6 of 12 shafts pigmtd.

~~Ta~~ Tarsus: 5.96 cm (left) Toes: Out: 5.54 IN: 4.22 Mid: 5.85 Hal: 0.62

Headlength: 11.90 cm

Bill length: 5.76 cm @ post. nares: 3.63

" width: 1.14 @ gape 2.87

" depth Gonys: 1.94

Ant. Nares: 1.87 Post Nares: 1.84

Brood Patches: 2 finger-tip size; middle one refeathered.

Bill Color: 10 YR 7/12 Gony: 10 R 5/16

Eyering Color: 10 YR 7/10

Irides: 10 YR 8/2. Thick graying pigmt thruout. 10 YR 2/2, but scattered lite patches

Legs: 5 R 6/4

Remarks: Right wing P° 10-5; 3-1 (4 just coming down, 3 in sheath).
Right outer web split. Left webs trace-splits. Few pin worms in stomach, segmented worms at kidneys. 1 EtOH & 1 frozen vial.
Stomach full of crab.

172799

Doug Bell
1987

Larus occidentalis x glaucescens

DAB
219

Skel + Left Wing

Location: Whitcomb Island, Grays Harbor, Grays ~~Hab~~ Harbor Co., Washington

Date: 2 July 1987

Sex: ♂ Rt. T: 0.77 X 0.36 X 0.34 (left T. destroyed)

Wt: 1,140 Fat: Good

Winglength: 41.0 cm (left) Chord: 138.5

P° Length 10 - 29.0 cm W 7 - 28.2 cm

9 - 29.6 W 6 - 26.4 W

8 - 29.6 5 24.2 W

Tail length: 15.6 cm 5 of 11 shafts squirted.

Tarsus: 6.19 cm (left). Toes Out: 5.78 In: 4.50 Mid: 5.90 Hal: 0.72

Head length: 12.93

Bill length: 5.98 at post nares: 3.82

" width: 1.42 at gape: 3.23

" depth: Gonys: 2.12

Ant. Nares: 2.05 Post Nares: 1.97

Brood Patches: 3

Bill Color: 10YR 7/10 Gony: 10R 5/14

Eyering Color: 10YR 7/10 Gony color in rear corner.

Irides: 7.5Y 8/2 Pigmt. 10YR 3/2 Diffuse thruout, thicker in lower half, but much background shows thru. ~~lighter in upper~~ even.

Legs: 5R 7/3

Remarks: 1 frozen mo. Stomach full of fish (small) - stripped

Segmented worms in body cavity - heavy! Right P°: 10-4 (3 out, 2+1 in sheath).

Doug Bell
1987

Catalog

172706

DAB

218 Larus glaucescens

Skeleton + Rt. Wing

Location: Whitcomb Island, Grays Harbor, Grays Harbor Co., WA

Date: 2 July 1987

Sex: ♂ 1.61 X 1.37 X 1.29 (L. Testis) Rt. ~~destroyed~~ 1.5 X 1.3 X 1.00 cm

Wt: 1,100 gms Fat: Poor

Winglength: 42.6 cm (Rt) Chord: 141.5

Primary length: 10 - 29.9 7 - 28.8

9 - 30.2 6 - 27.0

8 - 29.8 5 - 26.3

Taillength: 16.9 cm 6 of 12 shafts pigmtd.

Headlength: 13.24

Bill length: 6.08 - Post Nares: 3.57

" width: 1.20 - at gape: 3.21

" depth: Gonys: 1.93

Ant. Nares: 1.93 Post Nares: 1.82

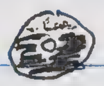
Tarsus: 6.13 cm (left) Toes Out: 5.65 Mid: 5.84 IN: 4.45 Hallux 0.67

Brood Patches: 3

Bill Color: 5Y 7/6, streaks of 10YR 7/10 Gony: 8.75R 4.5/16.5

Eyerings: 5RP 6/4

Irides: 2.5Y 8/4. Pigment thick, even, lower 2/3, Grainy ~~upper~~ 1/3.

Very little background  10YR 2/2

Legs: 5R 6/3

Remarks: 1 blood vial, 1 frozen vial. Stomach w/ small fish fillet. Pin worms galore! Left P° 10-5; 1 (4 out, 3 & 2 in sheath)

Doug Bell
1987

Catalog

Larus occidentalis

DAB 220 Skel. + Rt Wing

Location: ~~Gray~~ Whitcomb Island, Grays Harbor, Grays Harbor Co., Washington

Date: 2 July 1987

Sex: ♀ Ova ≥ 0.18 cm d; rest, small

Wt: 875 gm — Fat: Moderate

Winglength: 40.5 cm (left) — Chord: 137 cm

1° length: 10 - 28.4 cm w; 7 - 26.3 w
9 - 28.6 w; 6 - 24.6 w
8 - 28.0 w; 5 - 23.1

Tail length: 15.4 cm

Tarsus: 5.99 (left) — Toe: IN: 4.28, OUT: 5.51 — MID: 5.73, HAL: 0.54

Head length: 11.93

Bill length: 5.75 — at Post Nares: 3.32
" width: 1.12 — at gape: 2.70
" depth Gonys: 1.89
Ant Nares: 1.78 — Post Nares: 1.67

Brood Patches: 3

Bill Color: 10YR 7/10

Eyering Color: 10YR 7/10

Irides: 5Y 8/3. Diffuse even pigment, lower 1/2; a bit sandy upper 1/2. Pigment 10YR 2/1

Legs: 5R 6/3

Remarks: Stomach full of fish. 1 frozen vial. Blue paint on feet. Left primaries 10-5, 2-1 (4+3 in sheath). Hole in right outer web.

Doug Bell
1987

Catalog

172800

DAB | ♀ | *Larus occidentalis x glaucescens*
221 | Location: Whitcomb Island, Grays Harbor, Grays Harbor Co., Washington

Skeleton + Rt. Wing

Date: 2 July 1987

Sex: ♂ L: 0.98 X 0.75 X 0.64   R: 0.89 X 0.55 X 0.57 cm

Wt: 1,090 gms.   Fat: Moderate

Winglength: 40.6 cm (left   Chord: 145 cm

P° length: 10 – 29.0   7 – 27.4
9 – 29.6   6 – 26.0
8 – 29.2   5 – 24.0

Taillength: 16.4 cm 6 of 12 shafts sprouted.

Tarsus: 6.51 (left).   Toes Out – 6.20 IN – 4.72 Mid – 6.28 cm Hal – 0.65

Headlength: 13.10

Bill length: 5.96   at post nares: 3.29

" width: 1.24   at gape: 3.75

" depth Gonys: 2.25
Ant Nares: 2.24   Post Nares: 2.10

Brood Patches: 3

Bill Color: 5Y 7/8. Some – 10YR 7/10 streaking. Gony 10R 5/14

Eyering Color: 2.5Y 7/10

Irides 10YR 8/2 Pigment 10YR 3/2 – Graying throughout. Some backgnd visible upper 1/4 Legs: 5R 6/4.

Remarks: Stomach filled w/ little crab shells, but only in gizzard. 1 frozen nail, 1 blood sac. Rt foot webs – 2 small holes, swollen ball of foot pad; Left wing P° 10–4; 2+1 (3+2 in sheath)

Doug Bell
1987

Catalog

172712

DAB Larus glaucescens

222 Location: Port of Olympia, Olympia city, Thurston Co., Washington.

Date: 3 July 1987

Sex: ♀ 5 ova ≥ 0.42 cm; 10 ova ≥ 0.25 cm ♀

Wt: 960 gms Fat: ~~[illegible]~~ Poor

Winglength: 39.8 cm (left) Chord: 137.5 cm

P° length 10 - 27.8 cm 7 - 26.6

9 - 28.2 6 - ~~25.0~~ 25.5

8 - 27.7 5 - out.

Tail length: 15.3 cm

Tarsus: 5.93 cm (left) Toes Out - 5.30 IN. 4.28 Mid - 5.56 Hal - 0.55

Headlength: 11.82 cm

Bill length: 5.53 at post nares: 3.49

" width: 1.12 at gape: 2.85

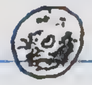
" depth at Gonys: 1.87

at ant nares: 1.77 at post nares: 1.68

Brood Patches: 3

Bill Color: 5Y 7/10 Gony: 5YR 6/10

Eyering Color: 5RP 5/6

Irides Color: 10YR 7/2 Pigmt 10YR 2/2 thick even in lower 2/3, blotchy in upper 1/3 

Legs Color: 5R 7/3

Remarks: Trapped off 3 egg nest. Threw up hotdogs + garbage 1 blood + 1 frozen ind.

Doug Bell
1987

Catalog

172697

DAB
223

Larus glaucescens x occidentalis   MVZ 172697

LOCATION: Protection Island, Jefferson Co., Washington

Skeleton + Left Wing

Date: 6 July 1987

Sex: ♀ 13 ova ≥ 0.30 cm ϕ

Wt: 980 gms.   Fat: Heavy.

Winglength: 41.3 cm (Rt.)   Chord: 140.5 cm

Primary length:	10 - 29.6 cm		7 - 27.3 cm
	9 - 29.8	w	6 - 25.6
	8 - 29.3		5 - 23.4

Taillength: 16.2 cm 8 of 12 shafts pigmtd.

Head length: 12.74 cm

Bill length: 6.01 cm   at post nares: 3.68

" depth: 1.21   at gape: 2.73 cm

" depth: Gonys: 2.00

Ant. Nares: 1.90 cm   Post. Nares: 1.73

Brood Patches: 3

Bill Color: 5Y 7/10 with some faded 10YR 7/10 - streaking.

Eyering Color: 5RP 6/4 upper lid; 10YR 7/10 lower lid - on tubercles, rest is 5RP 6/4

Irides: 7.5 Y 8/4. Very little diffuse pigment lower 1/4 - just fine pigmt. patches, light 5Y 2.5/2 ⊙

Legs: 2.5R 6/4

Remarks.

Tarsus: 6.13 cm (left)   Toes Out: 5.80 IN: 4.50   M.d. 5.89 cm Hallux: 0.77

Trapped off 3 egg nest. 2 Blood vials Corn on left middle toe. Right wing P° 10-4; 2-1 (3 out). Stomach empty, except for one set of Nereis jaws

Eggs 223-A-B-C.

Doug Bell
1987

Catalog

Lg/h
172773

DAB
224

Cel. +
Wing

Larus glaucescens x occidentalis MVZ 172773

Location: Protection Island, Jefferson Co., Washington

Date: 6 July 1987

Sex: ♂ L: 1.05 x 0.70 x 0.61 cm R: 0.75 x 0.51 x 0.39 cm

Wt: 1,235 gms Fat: Heavy

Winglength: 43.4 cm Chord: 143.5 cm (?)

Primary length: 10 - 30.0 cm 7 - 28.7 cm
9 - 30.2 cm w 6 - 27.2
8 - 30.1 cm 5 25.3

Taillength: 16.8 cm 6 of 12 shafts pigmted.

Tarsus: 6.83 cm (Rt.) Toes: Out: 5.81 cm IN: 4.49 Mid: 5.88 Hal: 0.70

Head length: 13.95 cm

Bill length: 6.64 cm at post. nares: 4.25 cm

" width: 1.37 cm at gape: 3.49 cm

" depth - Gonys: 2.07

- Ant Nares: 2.04 Post Nares: 1.94

Brood Patches: 3

Bill Color: Mostly 5Y 7/12

Eyering Color: 5RP 5/6 - corners + upper lid; rest 5RP 6/4

Irides: Background 10YR 8/2; but nearly completely covered by ~~blod~~ thick pigment: 10YR 2/2 Evenly distributed, thick

Legs: 10 RP 5/4

Remarks: Trapped off 3-egg nest - one of which was hatched, other of which was hatching. Collected the hatched chick, which was dry and up as of last nite. 2 Blood vials. Mate of DAB 226. Stomach empty except for a few fish ribs. Egg 224 - C; Chick 225.

Doug Ball
1987

Catalog

172698

Larus glaucescens x occidentalis MVZ 172698

DAB 225 Location: Protection Island, Jefferson Co., Washington

skin

Date: 6 July 1987

Sex: unknown.

Wt: Hatchling; w/in 24 hrs. Fat:

Winglength: Chord:

Primary length 10 - 7 -

9 - 6 -

8 - 5 -

Tail length:

Tarsus: Toes: Out: IN: Mid: Hal:

Headlength:

Bill length: at post nares:

" width: at gape:

" depth Gonys -

Ant. Nares - Post Nares -

Brood Patches -

Bill Color -

Eyering Color -

Irides -

Legs -

Remarks. Chick of DAB 224 + 226; trapped off nest with one other egg and a hatching egg. Blood vial taken, and one frozen tissue vial made.

Doug Bell
1987

Catalog

Lg/n

172774 *Larus glaucescens* x *occidentalis* MVZ 172774

DAB 226 Location: Protection Island, Jefferson Co., Washington

Skel + ?t Wing

Date: 6 July 1987

Sex: ♀ 9ova ≥ 0.27 cm ♀

Wt: 915 gms. Fat: Good

Winglength: 38 cm (left). Chord: 136.5 cm

P° length: 10 - 27.2 cm 7 - 26.4 cm

9 - 27.9 W 6 - 24.5

8 - 27.5 W 5 - 23.6

Taillength: 16.2 cm 7 of 12 shafts pigmented.

Tarsus: 6.27 cm (left) Toes: out: 5.52 Mid: 5.92 In: 4.17 cm Hal: 0.67

Headlength: 12.17 cm

Bill length: 5.42 cm at post nares: 3.57

" width: 1.25 cm at gape: 2.64

" depth Gonys: 2.13

ant. nares: 2.06 post nares: 1.88 cm

Brood Patches: 3

Bill Color: 5Y 7/10 Gony color: 10R 5/16

Eyering Color: 5RP ~~[illegible]~~ 5/6 - especially corners + upper lid; rest 5RP 6/4; middle lower lid 10YR 6/4

Irides: 10YR 8/2. Grainy, diffuse upper half; uniform thick lower 1/2

Legs: 10RP 5/6.

Remark: Mate of DAB 224. Split outer web, left foot Left Wing P° 10-5; 3-1 (4 just in sheath.) Stomach empty except for a few feathers: Pin worms in esophagus. 2 Blood vials + 1 frozen.

172699 Doug Bell 1987 Catalog

Larus glaucescens MVZ 172699

DAB

227 Location: Protection Island, Jefferson Co., Washington

Date: 6 July 1987

Sex: ♂ L: 1.02 X 0.57 X 0.51 R: 0.64 X 0.51 X 0.42 cm

Wt: 1,115 gms. Fat: ~~Good~~ Moderate

Winglength 42.5 cm (Right) Chord: 149 cm

P° length 10 29.7 cm (Right) w 7 28.7 cm

9 30.7 w 6 27.5 cm

8 29.9 w 5 molt - in sheath.

Taillength: 16.8 cm 6 of 12 shafts pigmtd. + 3 vanes w/ min. flecking.

Tarsus 6.70 (left) Toes Out 5.71 In 4.60 Mid 6.00 Hall. 0.52

Headlength: 12.97 cm

Bill length: 6.05 cm at post. nares: 3.78 cm

" width: 1.29 cm at gape: 3.10 cm

" depth Gonys: 2.11 cm

Ant. Nares: 2.11 Post Nares: 1.97 cm

Brood Patches 3

Bill Color: 2.5Y 7/10 Gony 10R 5/16

Eyering Color: 5RP 5/8 corners & upper; 10YR 7/4 lower & tubercles.

Irides: 10YR 8/2 Pigmt. thick uniform in lower half, diffuse but covering nearly whole iris, upper half 10YR 3/2

Legs: 10 RP 5/6

Remarks: Mate of 223. Eggs 223 A-B-C.

Left wing P° 10-6; 3-1 (5 out, 4 just in sheath).

Stomach empty except for a few remains of crab shells. 2 blood vials, 1 frozen.

RW

Doug Bell
1987

Catalog

172700

DAB 228 Skel. + Rt. Wing

Larus glaucescens MVZ 172700

Location: Protection Island, Jefferson Co., Washington

Date: 7 July 1987

Sex: ♂ L: 1.43 X 0.99 X 0.76 R: 1.14 X 0.85 X 0.69

Wt: 1,260 gms Fat: Poor.

Winglength: 41.5 cm (Right) Chord: 148 cm

P° length: 10 - 29.2 cm w 7- 28.2 cm

9- 29.6 w 6- 26.2

8- 28.9 broken 5 - 25.5

Taillength: 16.8 cm 6 of 12 shafts pigmtd.

Tarsus: 6.72 cm (~~Rt~~ left). Toes Out: 5.82 cm Mid: 5.93 cm IN: 4.35 cm Hal: 0.64 cm

Headlength: 13.72 cm

Bill length: 6.32 cm at post. nares: 4.06 cm

" width: 1.44 cm at gape: 3.05 cm

" depth Gonys: 2.16 cm

Ant Nares: 2.07 Post Nares: 1.93

Brood Patches: 3

Bill Color: 5Y 7/12 :

~~Gaping Color~~. Irides: 10YR 8/2 Pigmt: 10YR 2/2 - Even, grainy diffuse throughout, with slight > background in upper half.

Gaping: ~~Irides~~: Corners: 5RP 5/8 Elsewhere 5RP 6/8.

Legs: 2.5R 5/8

Remarks: 1 blood vial. Shotgun "holes" in wing feathers. Tongue protruding thru floor of mouth! Trapped off 3-egg nest. Mate of DAB 229. Left wing P° 10-5; 2-1; 4+3 in sheath. Heavy segmtd. worm infestation - intestinal connective tissue. Stomach empty except for some mealy substance.

Eggs: 228-A-B-C. 1 frozen vial.

Doug Bell
1987

Catalog

172701

DAB
229

Larus glaucescens MVZ 172701

Location: Protection Island, Jefferson Co., Washington

Date: 7 July 1987

Sex: ♀ 5 ova ≥ 0.37 cm; 10 ova ≥ 0.34 cm ♀.

Wt: 910 gm Fat: Moderate

Winglength: 38.9 cm (Right). Chord: 131 cm

Primary length 10 - 27.3 cm 7 - 25.2 cm
9 - 27.3 6 - 23.7
8 - 27.0 5 - 22.7

Taillength: 15 cm

Tarsus: 5.78 cm (Rt.) Toes: IN: 3.94 OUT: 5.15 MID: 5.76 HAL: 0.59

Headlength: 12.07 cm

Bill length: 5.72 at post nares: 3.56

" width: 1.17 cm at gape: 2.86

" depth bonys: 1.95

Ant. Nares: 1.86 Post Nares: 1.74 cm

Brood Patches: 3

Bill Color: 5Y 7/10

Eyering Color: Corners 5RP 4/6; rest 5RP 5/6

Irides: 10YR 8/2. Pigmt. 10YR 3/2: diffuse, sandy upper half; > [ ] lower half.

Legs: 2.5R 5/4

Remarks: Trapped off 3 egg nest - mate of DAB 228
Stomach empty except for minor mealy substance. 1 frozen vial
Eggs 228 A-B-C.

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Doug Bell
1987

Catalog

Larus occidentalis MVZ 172195

DAB 230 Location: Protection Island, Jefferson Co., Washington

kin
+
rtial Date: 8 July 1987
kel. Sex: ♀ 1 ova ≥ 0.52; 4 ova ≥ 0.37; 6 ova ≥ 0.25 cm A

Wt: 1,030 gms. Fat: Good

Wingl. 40.0 cm (Rt.) Chord: 137.5 cm

P° Length 10- 28.4 cm 7- 27.1 cm
9- 29.1 6- 25.5
8- 28.5 5- 23.1

Tail: 15.7 cm

Tarsus: 6.31 cm (left) Toes: In: 4.93 Out: 5.63 Mid: 5.97 Hal: 0.58

Head: l: 12.69 cm

Bill L: 5.84 cm

" Width: 1.29 cm at post nares: 3.66 cm at gape: 3.07 cm

" Depth Gonys: 2.19 cm
Ant Nares: 2.10 Post nares: 1.92

Brood patches: 3 - Middle patch refeathering

Bill Color: 10 YR 7/12 Gonys: 10 R 5/16

Eyering Color: 10 YR 7/10 - corners. 2.5 Y 7/10 mid sections of upper & lower lid.

Irides: 7.5 Y 8/4. Very little pigment; diffuse & graying 10 YR 3/2.

Legs: 5 R 5/4

Remarks: Trapped off 2 egg nest. Mate ♂ Glaucous-winged Gull, with all apparent "good" "GWG" characters. Head tossing, etc. seen.

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Doug Bell
1987 - 1988

CATALOGUE

Alcatraz Island, San Francisco Bay, San Francisco Co., Calif.
Dec. 13, 1987

231 *Batrachoseps attenuatus*: found underneath wood board at entrance to bunker below recreation yard at north end of island.

232 *Batrachoseps attenuatus*: collected at same locality with DAB 231

Berkeley, 1567 Scenic Ave., Alameda Co., California
JANUARY 26, 1988

SKELETON 233 ♂ *Catharus guttatus nanus* - found on walk, fresh dead, upper breast & neck skin torn - killed by cat. Right foot pad swollen ~5 mm diameter, yellowish in color - bumblefoot? No fat. Wt. 24.0 gms

D. A. Bell

1987

Journal

List of localities
California
Northern Calif., Oregon, Washington

Field Notes — Douglas A. Bell

1987

Alcatraz Island, San Francisco Bay, San Francisco Co., Calif.
January, March, April, May, June, December (various)

Golden Gate Hill, 4 mi. SW of Mokelumne Hill, Calaveras Co., Calif. — 25 April

Sulphur Springs Mountain, St. John's Mine, Solano Co., Calif.
2 May

Mendocino Co., Humboldt Co., California
20 May - 29 May

Tomales Point, Pt. Reyes Natl. Seashore, Marin Co., California
5 June

Northern California, Oregon, Washington
8 June - 8 July

LOCATION: Alcatraz Island, S.F. Co., CA. Doug Bell

WEATHER: Foggy, light wind. Cold.

DATE: 1/12/87

10:15 - 11:06 · Sitting in blind on cistern. Alex Yu is with me. Hoards of gulls around the island. We saw large mass fly overhead when we arrived (+500 birds). About 17 pairs are sitting around the perimeter of the cement platform - all adults. Another 12 birds are sitting directly on the platform. Pairs seem evenly spaced. Some alarm calling, and mups-mups when we came up. Aggression evident - short chasing to maintain spacing. Aggressive upright approaches from long distance seen in one case (3 meters). On Industry building about 70 birds are resting, Half of which are immatures. Saw two choking sequences, initiated by male, followed by ♀ begging, on industry building. On I.B. an aggressive upright bw. two males - each advances 2 steps - feigns thrust, backs up. Both pick up sticks, drop them. Then turn away, strike ground, face-off again. Do same with a feather. Another short chase on Cistern. We also saw bird w/ tuft of grass when we came up to blind. Cistern - ♀ begging from male; < 1 min. Cistern - short grass pulling. Cistern - long call, grass pulling. Cistern: aggressive upright chase (2) followed by long calling. Choking. Aggressive upright, mew approach, choking. Long call followed. 2 choking, one grass pull. Grass pull. Mewing. Alternate grass pulling, again. Long call. Grass pull, ditto. Standoff. Upright. Upright. Grol. Mew. Long call. Chase, mew. Grass pull, upright. Upright, peck. Mew + upright. Mew, chase + choke.

Field Notes

Doug Bell

LOCATION: Alcatraz I., S.F. Co., CA.

DATE: March 21, 1987

WEATHER: Patchy clouds; cool

TIME: 10:28

On Cistern, in blind. About 16 pairs around cement platform, and about 5 pairs sitting in middle area of platform. Most gulls resting, sitting + sleeping. One copulation seen on industry building. Recording on data sheets the following. 10:38 - 10:58 - Colony - most gulls resting, loafing. 10:58 - 10:18 : Watching one pair (#4) on cistern. Recording behavior of pair 4. At start, ♂ sitting on ground, head tucked. ♀ behind him standing. 11:03, ♀ moved to right, is now sitting too, at apparent nest site. Both sleeping. 11:06 ♀ stood up, preens, look around, other gulls long calling + mewing. 11:07 ♀ choked as another bird walked past. She then moved off the nest spot. 11:16 ♀ moved a foot to another spot, sat down. 11:18 - 11:38 - Colony watching. Pair 19 + 20 are very close in the platform near corner. Weather has become more overcast, colder. 11:36 - light rain, but sunny. 11:38 - 11:58 - observing pair 19 at close corner. One bird preening, other not present? The preening bird still standing. 11:45 - now the bird is just standing, looking around. (platform - ♀ stood up, walked around male while mewing) Immature Glaucous-winged flew over colony (2). 11:48 confusing. Bird under obs. long called as another landed nearby on platform. The bird that landed then walked over to this bird mewing. Then it walked back over to another bird on platform and choked with it. Meanwhile the bird under observation long called at ~~pair~~ pair 20. 11:55 - My bird now sat down. (11:55 Pair 4 is choking). 11:57 - mate landed. Whole series of Agg. Uprights at about 4 birds. One ♀ on platform seems to be going around to several males, mewing. Choked with one, then did face away. 12:04 - Pair 10 - one bird has another by wing, alarm calls, then went to fight.

Field Notes

Location: Alcatraz I. SF. Co., CA.
Date: March 26, 1987
Weather: clear, sunny. No wind.
Time: 9:20 - 10:47 - Tide High - outgoing.

On Cistern, about 20 pairs around perimeter of platform, and another 16 gulls on it. Mallard ducks, 2 ♂♂ on roof of I.B. About ½ the gulls sitting, ½ standing. Weather very calm. 9:37 - Pair 22 copulating - 2 min. 9:49 - Pair 14 - ♀ sitting on apparent nest-site, head tucked, sleeping. 9:53 - raised head up, looked around. 9:55 - ♀ got up - moved to another position just to the side, sat down again. 9:57 stood up again, moved back to old position, sat down again. A large male on platform walked over towards her. No reaction. Another pair behind her did long call, then she stood up and did same. 10:05 - one bird choked to another, then a neighboring bird came over + chased ~~it~~ the object of the choker away. 10:08 - imm. (3 yr?) on cliff, attracted immediate attention of pair 2, and pair 1; Pair 1 went down to it. After 2 min, he went up to ~~platform~~ flatter part - chased by pair 1. It then flew over to pair 6, which first did aggressive upright, then choked, the imm 3 yr bird then flew away. 10:15 - on platform - one bird did courtship feed to another - lump of chicken ? meat. 10:15 pair on platform. ♀ sitting, male standing off w/another male. 10:20 - still in stand off, occasional jab at other bird. This ♂ is banded, pink/silver. At 10:21 another bird, from territory 26 came over w/grass in bill, elicited the charges from this ♂. 10:33 - big fight at far end - 2 birds pulling. 10:36 - pair 24 - under obs - both birds standing close to pair 25, alert, but just looking. Both birds of pair standing on territory for whole 10 min. Singing White-crowns + Fox Sparrow (1).

Field Notes Doug Bell

Location: Alcatraz I., SF. Co., CA.
Date: March 26, 1987
Time: 12:06
Tide: Outgoing.
Weather: sunny, windy.

12:06 - 12 birds on perimeter, 13 on platform of cistern; had been disturbed previously by person walking over platform. It looks like most the birds ~~ka~~ are resting, loafing. Many seem to be out foraging. 12:12 - The bird w/ silver pink band grappled with another on platform for 2 min. 12:17 - Watching pair 20 - both sitting on territory, resting, but watching other birds too. 12:23 copulation attempt on IB. 12:23 - approach of another bird in agg. upright caused one bird to stand up. It then sat down again after picking at ground. 12:27 - both birds resting. 12:27 - Colony - most birds resting.

Location: Alcatraz I, S.F. Co.
Date: ~~March 25~~, April 5, 1987
Time: ~~9~~:46
Tide: ~~Outgoing~~ Incoming, half-low. ~~-Rock exposed~~
Weather: Clear, sunny; light wind.

At blind on cistern. Gulls seemed to stay alarmed longer upon my arrival. At ~~8~~ 9:50 - copulation on I.B. About 27 gulls on perimeter of cistern, and 12 birds on platform. New call - aaarrp (ascending) "yelp". Preceeds Long Call. Pair 29 was choking on spot, w/ a banding & standing next to them just watching (silver-yellow).

10:10 : 29 gulls around platform, 16 on platform. 10:11 - watching pair #29: Male sitting on ground, ♀ behind him standing. Both resting, but looking around. The ♂ is doing several choke-yelp-aarps, which fade into the gutteral choke while he is sitting. 10:20: most of the colony has calmed down. The ♂ suddenly did aggressive upright, ran to "nest" spot below level of cistern, mewing. ♀ followed. Both hopped down to the shelf & choked.

Field Notes Doug Bell

LOCATION: Alcatraz I., SF. Co., CA.
DATE: APRIL 5, 1987
TIME: 10:24 -

WEATHER: Clear, sunny. Light wind only
TIDE: Low, (half). One yard of rock is exposed.

10:31 Watching from blind on cistern. Pair on platform 27 mewed after doing standoff with other bird. Wind picking up now - getting moderate. While watching colony seven military helicopters flew by the island - causing alerts in all birds, long calling, and some chases. 10:46 - Watching pair 9 at end of cistern. Both birds sitting on ground, resting. One has head tucked, other is looking about. 10:48 - Juv. landed on cistern, sat for less than a minute, then flew off; The pair 9 male ~~stood~~ up after another pair long called when its mate showed up. Then a "stranger" landed nearby, ~~the~~ the pair 9 male charged it. 10:51 - male of pair 9 sat down, both birds resting again. Also - a 3yr bird landed on the platform, flew off at 10:54; Second yr. bird tried to land, but was chased off. The male of pair 9 has a dk. blotch on left cheek. 10:56 - both birds resting when obs. ended. ~~10:57~~ 10:57 Watching Colony: pair 5 copulating: only one cloacal contact after about 1 minute. 11:07 - Watching pair 7: both present at start, female head-tossed to male, then male walked over to nest spot. Bothe birds then left the territory.

Other birds:
6 ♂ Mallards
1 ♀ "
1 Turnstone
W. Grebes (but fewer than before)
White-crowns
Blk. crnd. Night Heron

11:18 - Watching colony: wind good 21 birds on perimeter, 12 on platform. 11:30 - watching pair on platform. 11:32 male flew off - (has silver/pink band. ♀ still on platform. Bird 2 aggressive uprights to other females on platform. ~~11~~ 11:35 - watched a long call between a landing bird & a standing one, the standing one then chased the new arrival away. ~~so~~ (11:36: ♀ w/nest material arrived on platform - just standing there).

11:40 Checking colony for nests: 10 nests on the immediate study area, no eggs. Saw 1 courtship feed → small fish.

At Fort Mason:
Hooded Oriole - ♂, brilliant, orange crown, nape, black bib, black back, white shoulder bar, bluish tinge to bill, repetitively going "eek".

FIELD NOTES DOUG BELL

LOCATION: Alcatraz I., SF. Co. CA.
DATE: April 12, 1987

WEATHER: Sunny, clear. Mild windy — picking up
TIDE: initial high, rock about 1' exposed

TIME: 9:15 -

First recording gull voices on power house roof & platform - first use of the new sony recorder. Some problems with the mike jack. 10:00 am - back in blind on cistern. About 25 birds on perimeter. ½ standing ½ sitting. Of these 5 appear to be sitting on nests. 9 birds on platform. Colony watching 10:10 After attack by A,q the ♂ returned to ♀ in ag. Ups. Recorded pair 5 copulating. 10:22 - 26 gulls around perimeter. 17 on platform. 10:24: Pair 13 under observation - both birds sitting with head tucked. 10:34 - Colony: pair copulating out of view on cistern. 10:46 - Pair 15: One bird on nest, ♂ other standing nearby, preening, ♀. The ♀ is looking at her feet every so often: four times in the last 4 minutes. I think the male has a red blotch on its right neck/cheek. 10:54 Colony: 29 birds on perimeter, 10 on platform. 11:22 - Watching pair on platform. Courtship feed of small fish seen. 11:24 - both birds off territory. Wind is still intermittent and lite. 19 gulls on perimeter, 8 on the platform. 11:37 Pair 19 (back): one bird sitting on "nest"; other standing. Sitter appears to be ♂. The ♂ is pulling grass intermittently to build nest. Does some choking inbetween.

Checked for nests & scrapes on the cistern, same area as last time. About 25 nests & scrapes found, of which about 15 looked like good nests. I placed stones and grass on the platform itself to make 3 new nest sites. On one, the banded male (silver/pink) went to it immediately, hopped in. mewed. after awhile, female approached, did mup-mups, then also hopped in, both birds choked.

FIELD NOTES DOUG BELL

LOCATION: Alcatraz I., SF. Co., Calif
DATE: April 18, 1987
TIME: 9:15 -

WEATHER: clear, sunny. High wind, variable gusts.
TIDE: Low; 1.5 meters of rock exposed

When I arrived at blind on cistern the whole north end of the island was in an uproar - all gulls were highly excited. At 9:19 there are about 26 gulls on perimeter and 9 on platform. Since 9:15 I've seen 3 copulation attempts, it's now 9:54. All of these seem to have been rather unsuccessful, Two ended without cloacal contact, and one ended with just one cloacal contact. Seems as if it is too windy, females move around too much, causing males to be blown off 10:05 - 29 gulls on perimeter; 11 on platform. Watching colony - most gulls sitting or standing 10:14 Pair 17 court feed - midshipman 10:18 - Pair 27 at first both birds present, then one chased off by several other birds. Now the one bird is just standing on territory, preening, leg tucked. 10:22 - A raven has shown up on the island, buzzing around north side. Tried to land on building - but is getting chased by gulls. Quite ~~areial~~ aerial, Some alarm yelps can be heard. The entire cistern broke out in long calling as raven flew by low. 10:30 Watching colony. 10:44 Watching pair 1- they did about a agg. upright in response to call from pair 29. Pair settled down. 10:48 - did both an agg. up at an intruder that landed on cliff below 10:53 - female preening (pair 1). While recording saw 2 courtship feeds - each of long ~~7"~~ fish (~6") midshipmen? 11:26: 26 gulls on perimeter, 11 on platform. 11:28 Pair 31 - both on territory, standing outside of nest box. 11:38 Pair 27 court. feed - 6" midshpmn. 11:50 - Tried to record 3 more copulations - one while helicop. flew by, 2 others at more convenient periods. Observed 2 more courtship feeds - one was with

FIELD NOTES DOUG BELL

LOCATION: Alcatraz I., SF Bay, Calif.
DATE: April 18, 1987
TIME 11:54 -

Weather - clear, sunny. Wind ~~[illegible]~~ ~~[illegible]~~ let up a bit.
Tide: still low but incoming

another midshipman, another looked like garbage - chicken. Courtship feed - pair 6 - small fish? Right after court feed they went into mating. 12:30 - ~~Chk~~ Checking nests on the cistern proper. Counted 15 "good" nests and 15 scrapes. After the disturbance: 24 gulls on perimeter, 8 on platform. There is one bird w/ silver + yellow band wandering around - investigating the nest boxes - finally went over to territory 28.

FIELD NOTES

DOUG BELL

LOCATION: Golden Gate Hill, 4 miles southwest of Mokelumne Hill, Calif., Calaveras Co., CA. (3/4 mi. E Highway 26)

Time: 7:45 - 11:30 AM

Weather: clear, sunny, warming

Date: April 25, 1987

Maren and I started from our car parked on highway 26 to hike up the hill in the general direction of the communication tower. This side of the hill is open grass with scattered blue & live oak. Many Western Kingbirds singing and flycatching. Red-tail on high power pole, Kestrel flew over road. Some starlings. We made it up to the service road going to tower. Trees, shrubs thicker here, with digger pine and other conifers interspersed. Some manzanita on the western side - Saw Lesser Goldfinches, Rufous-sided Towhee, heard Black-headed Grosbeak singing. Plain Titmouse. On our southern slope bluebirds, and Rock Wren singing. Thick Chapparell & Manzanita on hill top. Over the top and down to the rocks. Maren thought she saw what might have been a large falcon disappear below the hill, but there certainly no falcons about as we clambered down to the middle rock through a grassy break in the chapparell. The rocks as a whole on Golden Gate Hill are quite variable, with many small pinnacles. But there are 4 main rock faces, each of about 100 - 120 feet in height. The rocks are reddish hue and solid in nature, but chunky. Each cliff has numerous spalls and fault cracks running vertically thru it. It doesn't look like there are that many suitable ledges for falcons to nest on, but maybe somewhere in a fault would be secure. These rocks are the only substantial cliffs, aside from those over near Jackson, which are visible in the whole San Andreas area. They afford a beautiful view off to the S & SE, and SW.

LOCATION: Golden Gate Hill, 4 mi SE Mokelumne Hill, Calaveras Co., Calif.

DATE: 25 April, 1987 cont.

Zillions of hummingbirds about the rocks - feeding on the monkey flower blooms. About 50-100 White-throated swifts are noiciferously zipping about the cliffs - as are many Violet-green Swallows and one pair of Cliff Swallows - apparently with a nest in a fault crack. Both Rock and Canyon Wrens heard singing. 4 Turkey Vultures out and about. One Red-tail, and one imm. Coopers hawk soared past. These cliffs are very nice, and nicely isolated from most disturbance. There must be potential here for falcons. On our way back down the hill we sighted an Osprey circling out near Mokelumne Hill, almost to Jackson; then a chocolate-colored Red-tail adult and a lighter bird. An imm. Red-tail flew by. Also saw unident. Empidonax, heard Olive-sided Flycatcher, and down near the open grassy areas w/oaks Bullock's Oriole and Calif. Quail.

FIELD NOTES

DOUG BELL

LOCATION: Alcatraz I., S.F. Bay, CA.
DATE: April 26, 1987
TIME: 9:30 - 12:13

Weather: lifting fog, sun. Moderate Wind.
Tide: Low, but incoming. Rock .75 m exposed. Nearly covered at 12:30.

At blind on cistern - 9:31: 28 gulls on perimeter, 10 on platform. When Maren and I first arrived - lots of gull activity on the cistern - fights, grappling, etc. Recorded gulls from 9:30 - 10:00. At 10:00 = 30 gulls on perimeter, 10 on platform. 10:03 Colony: female 31 on nest, was attacked by neighboring ♂, she jumped off nest, jabbed at the ♂ and long called. ♀ then mewed, ran over to mate, on territory 5, and choked. Several near-adults with black tails flying around. 10:15: watched pair 34. (Copulation off cistern by unknown pair). 10:18 - mate flew off. The other bird then flew over to territory 1, and was later joined by mate. Both long called, mewed, and jumped off ledge to shelf where they commenced choking. This was in response to intruders. It appears that the pair 34 is really undecided about whether to nest on territory 34 or territory 1, as they were also defending site 34 earlier. Six Western Kingbirds were seen on the cistern - must have been just passing thru. (Pair 23 copulated) 10:40: watching Pair 19. 32 gulls on perimeter, 9 on platform. Pair 19 choked to 10:42, then preened. (Copulation off on Barracks). (Pair 18 copulated) - the copulations seemed to stimulate Pair 19, as they also attempted to copulate. 10:46: female wandering about, picking at pebbles. (10:47 Copulation on IB roof.) 10:50: both birds sitting, end of pair 19 observations. 10:50 - Watching Colony. 11:00 - court feed: fish (pair 31).
12:00 - two more courtship feeds - both times - small fish.
12:13 - Watching Colony. 25 gulls on perimeter, 8 on platform. Wind

FIELD NOTES DOUG BELL

LOCATION: Alcatraz I, SF Bay, CA. Weather - sun, but fog at gate.
DATE: April 26, 1987 - cont. moderate - high wind.
TIME: 12:13 - 12:45

is getting stronger. 12:21: watching Pair 10 - both sitting on nest territory (no eggs). (Pair 31 court feed - small fish ∮ about 5 fish ± 3" long) (Copulation on IB at 12:41 and 12:43) 12:47 Court feed on IB - looked like purplish mass - possibly a baby pigeon or some sort of mussel, with purple part being a shell?

Gull nest survey: Cistern only:
Scrapes: 13 Nests: 28
Nests on perimeter of cistern: 9 (mostly in metal heap).
One nest on cistern with 2 eggs - in territory 6, next to cement platform.

Other birds seen: few Western Grebes (last week there were still over 100 on the west side. Starlings. Night Herons, ~~so~~ White-crowned Sparrows. Western Kingbirds, Imm. Sharp-shinned Hawk - this bird hung around the island for considerable time - soaring + flitting about with the gulls - also seemed to be actively stooping on small birds. Many dives from a good height (100').

Field Notes — Doug Bell

Location: Alcatraz I., SF Bay, Calif.
DATE: May 1, 1987
TIME: 9:15 -

Weather: rained last night. Clear, but scattered clouds. Moderate wind.
Tide: low, 1.5 m of rock exposed.

At blind on cistern, recording. Pairs on Territories 23 + 10 copulated. 9:42 - 22 birds on perimeter, 6 on platform. Court. feed by pair 32 seen - fish chunks. Note: as ~~we~~ I walked up to blind saw 3 diff gulls looking for nest material. As I was recording from 9:15 - 9:45 saw at least 4 diff. birds carrying nest material. Pair 30 came in twice w/nest material. 9:44 - ~~9:54~~ 9:54 watching colony. - fight on IB at 9:53 at end of colony watch 9:54 24 gulls on perimeter; 9 on platform 9:57 - watch pair 32 - after male mewed & lured ♀ to nest, a commotion from an fight caused ♂ to fly over to see what was going on. 10:01 pair 20 copulating: 10:03 copul. of pair 20 over. The male began w/ high pitched clucks, ♀ was quiet. Occasional head toss. Then ♂ went over to lower pitched choking clucks. ~~32~~ 10:08 - 32 gulls on perimeter, 8 on platform 10:08 - 10:18 watching colony. 10:16 pair copulating on west cliff. 10:19 Pair 7 - both first involved in a boundary dispute - stand off, then this ended after ca. 2 min. 10:21 on ~~both~~ both birds just standing on territory. 10:28 flying bird carrying nest material. 10:29 - pair 10 - male seen carrying huge chunk of grass in to nest. 10:33 pair 31 seen to steal grass from nest of pair 30. 10:43 pair 31 repeated grass steal from nest of pair 30. Pair 10 copulated. 10:47 Watching colony 36 gulls on perimeter, 6 on platform. Copulation: under water tower & on metal pile. 10:59 - observing pair 20. One bird on nest, the other standing on territory. Strange - at first I thought the one bird standing was mate of the sitting bird. It walked over to it, after it had regurgitated and swallowed

Field Notes Doug Bell

Location: Alcatraz I., S.F. Bay, Calif.

Date: 1 May 1987

a fish. The sitting bird, which looked like a male, head tossed a couple times. The standing bird walked back to the platform, then proceeded across it to a female standing near territory 6. Here he regurg. his fish and fed half to her. She then followed him back to the perimeter near territory 20, but she was chased away by male from #32. The other male, the original one, stayed on his spot. 11:10 - Colony 28 birds on perimeter; 9 on platform. 11:16 - copulation on IB. Copulation also going on somewhere out of sight. 11:20 looks like the mate of pair 30 returned - much mewing - huge fish regurgitated by ♂. I have impression that the female of 30 did not defend the nest material stealing of pair 31. Male of pair 30 was apparently gone all morning.

LOCATION: Alcatraz I., SF Bay, CA.
DATE: 2 May 1987
TIME: 9:28 -
TIDE: Low, (incoming): 1.5 m exposed

Weather: clear, sunny, calm. No wind.

At blind on cistern: 9:22: 32 gulls on perimeter, 8 on platform. Immediate activities observed: nest building / grass collecting by ~~pair~~ bird in front of blind and on cliff ~~of~~ territory 1. Copulation heard. While recording from 9:30 - 10:10 - 2 copulations recorded and 2 food transfers seen - one transfer of midshipman, which the male did not want to give up, and one transfer of a sardine. 10:13 - 30 gulls on perimeter, 5 on platform. 10:20 - colony - 11 birds incubating. The weather is so calm - ca 20 gulls sitting on ~~EB~~ ~~so~~ powerhouse roof, about 20 bathing near exposed rock. 10:37 - Pair 5 - one bird is incubating, other standing next to it, head-tucked. So far I've seen a couple nest exchanges. In one case / pair 3 - the ♂ approach mewing, ♀ got up & left nest for him. In another case / pair 7, the bird sitting did a partial long call and then stood up. 10:50 - Colony - an imm (sub-adult - brown shoulders) on platform w/ bill of nest material - was chased by other birds, but still on platform: 27 birds on perimeter, 9 on platform. 11:08 - big fight by pair 5 - one bird ~~landed~~ landed and immediately grabbed the other's bill - grappled over 2 min, while all gulls long-called. A stranger then tried to rape female of pair 31 - twice attempted this. So far - 3 rapes this morning.

11:17 - Wind picking up - 11:22 copulation on power house.

11:28 - Pair 32 - both birds on territory, one standing in nest, other next to it. Gull seen carrying nest material. Gull seen carrying large palm frond.

Nest Survey: 13:00 – 14:30

Location:	Nests	# Eggs: +1	2	3	Eggs – but unknown #
East Cistern		I			
Powerhs: (+ Chimney)	II	II			
Walkway bw Cistern/Powerhs	II				
Junkyard	II				
Perimeter: NE Side	卌 卌	III		I	
Nth Side (Foghorn)	卌 I	IIII	IIII		
Perimeter: N. Build. So. to Baker Beach:	卌 卌 卌 IIII	卌 IIII	卌 III	卌 III	
Baker Beach South: to Pylon	卌 卌			I	eggs IIII
Pylon So. to house	I	I			卌
Parade Grnd – Helicopter Pad.	III	II			
Total	54	23	11	10	9 = 107

IB Roof

Nest No.	Eggs
1	1
2	3
3	1
4	3
5	2
6	2
7	1

Nests 卌 IIII

IB Roof 16 nests
Perimeter 107

FIELD NOTES

DOUG BELL

LOCATION: Alcatraz I., SF. Bay

Weather: - wind picking up

DATE: May 2, 1987 - cont

Time: 11:33

11:33 - Copulation on IB. 33 birds on perimeter, 11 on platform. 11:36 - ♀ #32 long called to ♂, as he approached, she then moved to ~~him~~ him. An intruder landed on platform, first ♂ 3 came over in agg. up, bypassing pair #. 27 choking, then males 32 & 26 came over in uprights to force intruder away. 11:39 another gull seen carrying nest material. Recorded copulation by pair 30 → 2 food transfers seen - pair 33 was of fish, pair 32 of garbage. 11:48 copulation on IB roof.

12:38 - Pairs 12 & 5 copulating. 12:44 - pair 31 court feed - fish

14:38 - Colony. 26 on perimeter, 12 on platform (gulls, that is) 14:41 - Copulation on metal ruins.

FIELD NOTES DOUG BELL

LOCATION: Sulphur Springs Mountain, St. Johns Mine, 1 mi. E Highway 80, Solano Co., Calif.

DATE: 2 May 1987

TIME: 6:30 pm - 8:30 pm

Maren and I talked with some people in a van who were watching the cliffs. Turns out - some friends of theirs were hiking down from the rocks. As they were doing this I saw a large dark bird course across one cliff-face. The hikers said they had talked to a girl on horseback, but no landowners. So we started up the hill to the rocks. On the way up we saw one Golden Eagle cruise away from the two rocks heading east. A pair of kestrels, looking at first like Prairies - stooped one-another. Once again - upon approaching the middle rock the land area changed. Vegetation was thicker, more wild-flowers, and damp shallows. Saw hummers, heard Bewick's Wrens singing. Some Violet-green Swallows and only a handful of White-throated swifts. A Horned Owl was scared up from below the middle cliff. I elected to hike up the middle, to the east of the middle cliff. Upon reaching the top there was an excellent view of the whole area - with a view of the cancerous suburbs encroaching on the land nearly to Sulphur Springs Road. On the Western-most Cliff, which has a long S-E face, I saw a stick-nest situated in a cleft about 1/3 of the way down the rock, near its western most point (as viewed from the middle rock) The cleft is complete - one can look thru it just where the nest is located. The nest

looked dilapidated, but there seemed to be much fresh white excrement around it. At this point I saw a pair of Golden Eagles soaring way off to the east - near the Quarry. It was getting darker, and Maren had just made it up to where I was. I was trying to see if I could see what looked like a 1/2-grown eaglet in the nest. But then I saw first a tiny white wing and then a head of a 2 week old eaglet peer around the nest. Soon thereafter, and in failing light, an adult eagle flew past us out in the valley and then up towards the cliffs. It landed on the nest. The chick poked it's head out, but the eagle remained hunched on the edge of the nest, watching us. After about 3 min we decided to leave the bird in peace - we crawled away through the brush. A last look revealed no bird. It may have moved onto the nest to ~~[illegible]~~ brood the young as it was late and the chick was probably calling.

FIELD NOTES

Doug Bell

LOCATION: Alcatraz I., SF Co., Calif.
DATE: 8 May 1987
TIME: 9:25 -
WEATHER: clearing fog, sunny
mild-moderate wind

TIDE: high, rock just exposed.

On cistern in blind. 32 gulls on perimeter, 10 on platform. (9:28). Of these, it looks like 23 birds are incubating. Since there is a moderate wind blowing, many gulls are soaring about the island. 9:35 - watching colony. Stranger on platform - wandering about - causing agg. uprights. Copulation heard but not seen. 9:45 - fog thickening ~~9:47~~ but visibility ca 1 mi. 9:47 - Pair 9 - male incubating & standing next to nest. Banded bird with silver, yellow landed on platform - was chased away. Pair on west cliffs copulating (9:50). Male mallard was on the cistern when I came up. Bird on 33 jumped off nest to chase intruder. Two separate courtship feeds seen - one pair 30 (recorded mewing, head tossing) was of fish, the other on IB - also fish. At end of watch pair 9 - no change, ♂ still on eggs. 10:06 - watching colony. It looks like pair 30 may have changed composition. ♀ landed w/US F&W band. Copulation heard, not seen. 10:10 - 27 gulls on perimeter, 8 on platform. The bird on nest 33 long called to one that landed nearby - the one that landed has a band on its left leg - both ♀'s. 10:26 - Pair 7 Grass-collecting gull seen on cistern. Pair 7 began copul. at 10:28 but interrupted - I think because a number of flying gulls are alarm calling. Of pair 7, neither bird is sitting on nest. 10:30 - 2 birds aerial mewing. 10:37 - 32 gulls on perimeter, 10 on platform Watching colony - Copulation back of cistern. Seems to be much fighting, uprights at area 26/34/28 : 10:50 - Pair 14 one bird incubating, other sitting nearby. Copulation heard, but not seen

Doug Bell

Field Notes

Location: Alcatraz I.
Date: May 14, 1987
Time: 9:30 am

Weather: clear, sunny, moderate-light wind
Tide: Low, Rock 1.4 m exposed

9:31 On cistern: 18 birds incubating (+4 on cement), 36 gulls on perimeter, 9 on platform. Major stand-off between pair 22/23.
9:49 Watching pair 11 - 36 gulls on perimeter; 11 on perimeter.
9:54 Copulation heard but not seen. Heard up till now 2 other copulations. 9:57 - ♀ of 11 nudging male - to get off nest. 10:00 Am - Colony. ♀ 11 had tried to relieve male of incubating duties - she attempted stroking his back with leg. 10:12 - Pair 28 32 birds on perimeter, 10 on platform. ♀ on nest, ♂ not around. 10:23 - Colony watching - a 3 yr bird is flying about the colony. 10:45: 24 birds incubating - 30 on perimeter, 9 on platform.
13:00 - Video recording gulls on cistern. Got nice sequence of the male from nest 33 "raping" ♀ sitting on nest 31. Some later video sequences may be no good due to battery problems.

FIELD NOTES DOUG BELL

LOCATION: Alcatraz I.
TIME: 9:21 -
DATE: 15 May 1987

WEATHER - lifting fog, mild wind
TIDE - Low (incoming). 1.2 m of rock exposed.

On cistern @ 9:22. Second day of video recording. Pair 32 copulating. 20 birds incubating, 36 birds on perimeter, 8 on platform. Rape on IB roof filmed. Copulation behind pair 20 filmed. The silver/yellow ♂ wandered thru platform - was pecked at by sitting female 31. 9:56 - Colony watching 35 birds on perimeter, 9 on platform. Filmed a rape: ♂ w/ yellow/silver bands head tossed to ♀, hopped on her back. An incubating male from nest 7 jumped out and broke-up the copulation. Filmed the yellow/silver ♂ on top of rock and at metal heap - he may have landed directly on top of another ♀ on the metal heap (attempt. rape). Also filmed an attempted rape at nest 16.

Trapped DAB 124 (♀ WG) off 3 egg nest. Also trapped another gull off a 3 egg nest (♀ WG) DAB 125. Picked up a recently dead, but fledged Black-crowned Night Heron from the recreation yard - the park rangers told me about it (DAB 126).

Gull Surveys:

	NEST	1 E	2 E	3 E	4
Wash of I B So to Baker Beach.	1		1	𝍸 𝍸 𝍸 ||	||
Baker Beach So. to Hut		1	𝍸	𝍸 𝍸 𝍸 𝍸 |	𝍸 ||
Parade Grounds Rubble					𝍸
Stairs to Rec. Yd. → West.				|	𝍸
Wash N to N W corner	||	|	|	𝍸 𝍸 𝍸 𝍸 |	𝍸
East Perimeter → N to N W corner	||	|||	𝍸 |||	𝍸 𝍸 𝍸	
Cistern West		||	||||	||	|
Totals	5 Nests only	7 Nests + 1 egg	19 Nests + 2 eggs	77 Nests + ? eggs	28

FIELD NOTES DOUG BELL

LOCATION: Alcatraz I

DATE: 19 May 1987

TIME: 13:11 -

TIDE: Low, 2 m rock exposed

WEATHER: Slight Haze, Cool, Mod-Heavy Wind.

13:11 - 20 birds on cistern perimeter incubating, 3 on platform incubating. 32 birds on perimeter, 10 on platform. Measuring internest distances and photographing eggs.

Nest totals:

Perimeter	:	136
IB	:	16
Cistern	:	44
		186 nests

FIELD NOTES　　　　　　DOUG BELL

DATE: 20 May 1987

LOCATION: Squaw Rock, Mendocino Co., on Highway 101, Calif.

15:30 pm - Stopped to take a look at the peregrines. Asked an elderly couple (Baldwin) who were watching the rock how the birds were. They said they heard from Monty Kriven that the nest might have been robbed in the past couple days. The couple had been watching for ca. 3/4 hour - had not seen any feedings. We watched the falcon sitting on a ledge for about 15 min. She e-chirped a couple times - then I saw the tercel go soaring off into the heavens - he really circled up & out of sight. The female took off from the ledge, flew about ~~its~~ the rock a couple times, landed on same ledge. She then left again, ~~came in~~ disappeared, then came in to a different ledge, had something in her foot?, but quickly ate it. One or 2 screams - otherwise, no other activity. The falcon then flew up to her original spot. The birds seem to have lost their young - they are falcons without a cause. A red T-shirt is up on the pinnacle. This watch lasted until 4:00 - after that the accident with the old couples' car going off the road occurred - so I couldn't watch the birds anymore, had to help.

16:30 - 18:30 - slow drive down 128 west to Mendocino - saw a couple - 3 ~~cliff~~ separate rock - ~~cliff~~ areas that looked good for falcons.

19:00 - Town of Mendocino - Barn Swallows in town. At the Mendocino Headlands: pelagic cormorants, common loons (2), oystercatchers, pigeon guillemots, white-crowned sparrows, cassin's auklets (flock 6). Three Phalaropes (Northern) seen offshore.

FIELD NOTES Doug Bell.

DATE: MAY 20, 1987

LOCATION: Van Damme State Park, Mendocino - Co., Calif.
Went to park beach - good view a "gull nesting rock" to SE. About 56 pair counted (from my angle). Lots of birds at fresh water creek "Little River". Black Brant hanging around beach - as is an Mallard Duck.
Stellars Jays, Brewer's Blackbirds, Robins, ~~Herm~~ Swainson's Thrushes, Varied Thrushes, Olive-sided Flycatchers in camp.

DATE: MAY 21, 1987
Location: variable, along Mendocino Co., coastline. From 0600 to 0800 I tried trapping gulls on the beach with no success. Tried luring into trap w/ bread. They are just too wary to walk into a trap on the beach. The ♂ mallard and the Black-brant were there again.
After trapping attempt I drove up to Fort Bragg to get fish remains. Then headed back to Mendocino. The headlands were very nice. On the immediate offshore islands there were a few gulls nesting - I counted about 24 pair, there was at least on cormorant colony of double crested cormorants. These were collecting grass from amongst the gulls for nesting. Then went down to the northern-most unit of Van Damme S.B. (on pennisula south of Mendocino Bay. One pair nesting on an offshore rock and a few birds moving past. Then went back to camp. Set up trap on beach with 2 fish ~~carcasses~~ bodies - but left trap out to try to condition a few birds. One male gull took a fish from the trap entrance, but that was all. Too many people out and about.

Iris – 7.5 Y 8/2

Irides – Pigment even-dispersed, lower half – some in upper ½.

127 Eyering 10 YR 7/12 wt 1,310 gms

128 " 10 YR 7/10 – touch bill-spot color in corners.

Iris: pigment – even dispersed – lower half.

7.5 Y 8/4

Wt. 975 gms

Legs: 2.5 Y 8/4 – both.

Elora Spring
5501 N. Hwy 1
Little River
Calif 95456
937-5344

Sons: ~~Allan~~ Alan & Glenn

DATE: MAY 21, 1987

Forgot to mention - while trying to trap this morning at Van Damme I saw a pair of ospreys circling about the cove. Quite vocal - whistling to one-another. At some point one of the birds caught a fish and then headed straight away for the ridge to the northeast of the cove. Anyway - after Van Damme I headed south on Highway 1. There really doesn't seem to be any good place for gulls at least between just south of Little River and Elk, Calif. There are scattered birds, but either access is private or it's too steep (>1000') to the beaches. Even then - few gulls. Albion is OK - saw a few gulls at that harbor - and towards late afternoon I even saw some nesting birds and a number of immature at the spit of the Navarro River - also saw 3 ospreys there, one sitting on a wire - I could see it from above - (the road looked down on the river) eating a fish. The osprey had nifty yellow eyes, chocolate eye stripe, white nape. A double-crested cormorant landed next to it on the wire and squawked weird. Went down to a private beach about 2.5 mi. So. of Elk - real neat - but only one pr. gulls on an offshore rock. A friend of the landowner met me at the car - not happy with my trespassing. At Albion Cove saw couple pelagic cormorants diving inland in the ~~river~~ river - they almost looked like anhingas! Went back to Van Damme - too ~~many~~ people - so I went up to the pennmsula just so. of Mendocino - shot 2 gulls - appeared to be a pair (DAB 027,028). These

FIELD NOTES

Doug Bell

DATE: MAY 21, 1987

birds were collected at the northern unit of Van Damme State Beach. This is the penninsula just south of Mendocino town. Saw other birds, but the 2 I shot looked & acted like a mated pair - they had a nest on a small offshore rock. The male had even chased some juv. gulls around. Other birds seen - Hairy Woodpecker, Marsh Hawks, Ospreys, Barn Swallows.

DATE: May 22, 1987

Tried trapping at Van Damme beach to no avail. Gulls too wary & too many people! Gave up. Went to northern Van Damme unit - prepared the 2 birds I shot last night. Decided to talk to the ranchowners of the land inbetween the 2 State Park Units to see if I couldn't shoot gulls on their property. Met a wonderfully sweet gray-haired lady, Clora Spring, and her charge, an older woman confined to a wheel chair. They said it'd be OK to shoot if their son's agreed, which they did. So I made plans to go back to their vast bluffs this afternoon. I drove out there, right to the cliff-edge and was able to shoot 4 gulls in quick succession (DAB 129-132). Recorded gull calls at Van Damme Park.

DATE: May 23, 1987

Went back to the Spring property in the morning and shot 3 more gulls (actually 4 - but I lost one in the sea). Met ~~Alan~~ Alan Spring - probably mid 40's - very nice fellow!

Field Notes Doug Bell

Date: May 25, 1987

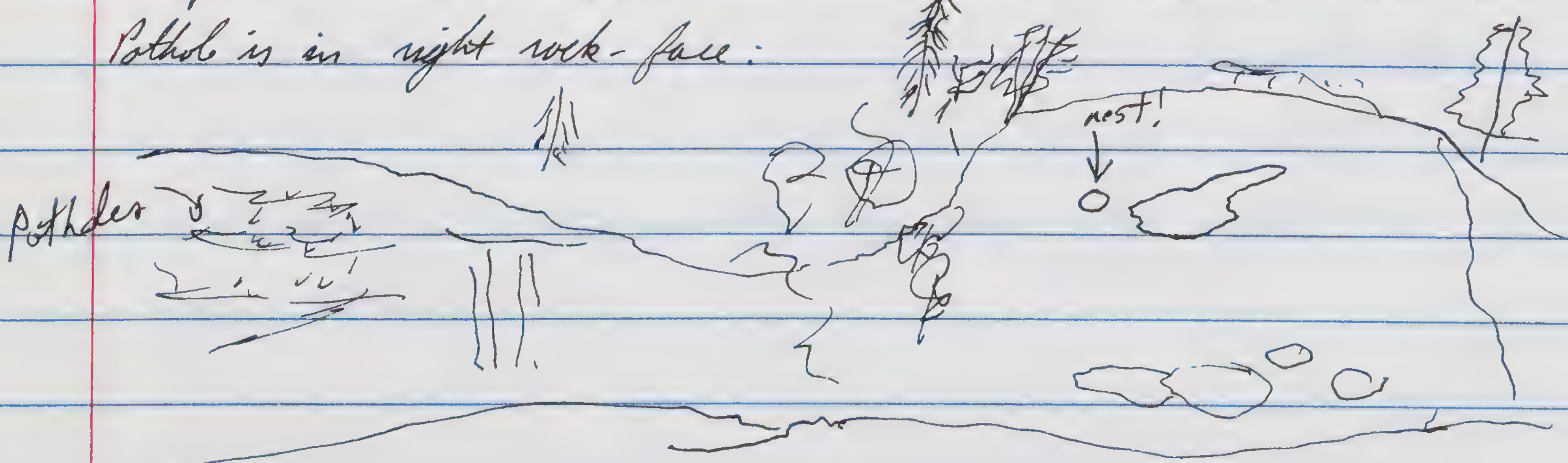
Location: Squaw Rock, Highway 101 (10 mi. So. of Hopland), Mendocino Co., Calif.

Time: 15:15 - 15:45. Weather sunny, but variable clouds. Solid car-to-car traffic headed south between Squaw Rock and Cloverdale on Highway 101. We're heading north. We are watching the main east-face of the rock. A large shelf going across the rock about 3/4 of the way up has a beautiful adult peregrine sitting on it. Looks like the female. She was quite, but we heard occasional wailing, like of an eyass, coming from the rock. Nothing visible, though. After about 20 min the ad. tiercel flew in, the ♀ e-chuched and flew out to accept a small prey item from him. He ~~unknown~~ then landed on a ledge up high on the rock. The female flew back to the main ledge and handed the food over to a single, ~~wailing~~ wailing eyass. The eyass looked to be about 4 weeks old - it ran about the ledge, wings flailing - looking a bit uncoordinated. The screaming of the eyass was quite distinctive. It was so nice to see that this pair did indeed have at least one young. My supposition from May 20, that no eyasses were present, was wrong. While there a fellow by the name of Mike Anderson stopped to look at the birds - a falconer from Petaluma - he knows everyone - Jim Geary, Hobbs, Swearingen, Monty Kerven.

DATE: MAY: 26, 1987

LOCATION: Phelps Ranch, nr. Garberville, So. Humboldt Co., Calif.
Rode out to Goat Rock w/ Todd & Maren in jeep. Ravens, meadowlarks, starlings, bluebirds around. At rock saw red-breasted Nuthatch. No sign of falcons. Sat on rock for 1/2 hour (10:00 am). Talked about John Benbow, ~~&~~ Mark Boar. When we left the rock we heard a scream & drove down the road to south of rock - saw a falcon - twice zip over the hills at grass level fast. After ~~a~~ couple minutes saw another adult falcon on snag at rock. Same bird? We drove up to the rock - got a great view of the falcon - thick dark cap, white breast, yellow cere & legs. Loose down feather on ~~nar~~ cere. It meowed and flew off. Todd said he had seen the pair last week fly over the house

LOCATION: Briceland Rd. Nr. Redway, Humboldt Co. Calif - at the peregrine rocks: pothole with at least 2 5-week old young in nest (wings 1/2 out, some down patches on thighs - head. Adult sitting in very large hole just to the right of the pothole. (1:30 PM). It left after making a short hop to another spot. Young in pothole sunning itself, practicing flapping, beautiful choco-brown, golden ~~br~~ breast, streaked. Bluish cere. Pothole is in right rock-face:



FIELD NOTES Doug Bell

DATE: MAY 26, 1987

LOCATION: Eel River near Holmes, Humboldt Co., Calif.

Stopped at the large river cliffs around 16:20 hrs. After looking over the cliff faces for a couple minutes with the scope I saw what looked like a falcon sitting on a snag located behind a "clump" of trees about mid-way up the left major cliff face. There are actually 2 sets of trees growing right out of the ~~the~~ right hand cliffs, and the bird was sitting in the right hand set of trees. There is a large grassy slope behind these trees. After 5 minutes or so we heard wailing - of the "eyass" type. We then saw one peregrine fly up to a large dead tree. This bird was an adult, the other one couldn't be seen all that well. The wailing of an eyass(?) was heard irregularly, and sometimes it definitely sounded like 2 birds were screaming. The adult flew about the rock - more screaming was heard. A second adult showed up and appeared at various points along the cliff. Each time one adult flew, wailing of an eyass could be heard. This went on for about 1/2 hour until both adults disappeared - hunting. It was hard to see any eyasses because we just couldn't find the exact ledge-site - it was too shrouded in trees. Plus it was quite windy on the Eel River, and variable clouds passed over - making for changeable lighting conditions. One bird sat on the snag at the tree clump the whole time - it was an advanced eyass.

DATE: May 27, 1987

Spent the night in Arcata, Calif (May 26). Stopped in at the HSU Marine lab in Trinidad. Talked to the equipment technicians: Lee Rusconi and Dave Hoskins. They gave me a list of possible fishermen who could take me out:

Ron Chaney
Director
HSU Marine Lab
677-3671

Dr. Gary Brusca
422-0836

Jim Gullett 677-3484 * We went out with him $30.00

Mike Clasby 677-0140

Mitch Farro 677-0618

Other possibilities: Thru Bob's Boat Basin (677-3625) → Mrs Cox gave me the names of her husband Dwane Cox (677-3807) and Dan Cox (677-3288). She said ~~Dwane~~ Dwane would agree to take me out.

I arranged to meet ~~to~~ Jim Gullett at 3:30 pm - and he took us out in The Wildflower (32') to some of ~~out~~ the rocks north of Trinidad Head. One rock we stopped at was about ½ mi. north of the Head - it is a large, flat-topped, domed rock. Tim called it bird rock. Lots of Murres, a few Puffins. I shot 8 (DAB 136-143) birds while we rested to the ocean side of the island. Wind was 10-20 knots, sunny. We were back in to shore by 4:40 pm. Prepared the birds at the Marine Lab. Came back to the Pier at Trinidad Harbor by 20:00. Saw 8 River Otters in harbor - watched them up close as they played on the docks. Picked up fish scraps off bottom - brought these up. Gulls knew what to expect and hung out on the docks waiting for scraps. Gull nests in harbor: 2 on large shore cliff, one each on rocks just east of pier (as always). Tried to record gulls.

DATE: May 28, 1987

At HSU marine lab for most of day - working on my gulls. Other birds at Trinidad Harbor: Oystercatchers (2), Kingfisher, Double-crested Cormorant, imm. Glaucous-winged Gull, Barn & Violett-Green Swallows, Pigeon Guillemots. In the afternoon we went up to Azalea State Reserve on North Bank of Mad River: saw robins, stellar's jays, olive-sided flycatchers, empidonax spp (family group), Black-headed Grosbeaks & nest. In the evening we walked Agate Beach (camped at Patrick's Point S. Park). Saw beautiful views of Grey Whales: long, slightly triangular backs, tiny dorsal fin, mottled appearance. High, straight spouts. I saw them breach, nearly in the surf, a couple times. Pointed head, long snout. Maren saw them breach 3 times. At various times we saw one to three whales, and possible a mother and calf. Breaching was carried out with the whale's head pushing out of the sea and then crashing back down into the water. At one breach I saw a whale poke only its snout - probably just up to the eyes, out of the water and then slowly sink back in. The whales breached when they were closest in to shore, that is, when the waves started cresting. This was actually quite close as there were only about 3 rows of cresting waves. Agate Beach appears to drop off into the deep quickly. At the center of this long beach was a large offshore rip-tide - looking area. In this were many sea lions and seals. Near the border of rip-tide and surf the whales were breaching.

DATE: MAY 28, 1987

A Red-tail hawk was soaring on updrafts above the bluffs of Agate Beach. It was nearly dark as we were leaving the beach. Nevertheless we caught a glimpse of two more whales - 2 diff. spouts and backs. Since this location was about 1 mile south of where we saw the other whales, and those other whales headed north eventually, it seems safe to assume that these 2 whales were new ones. They were also heading north. So, it appears that we saw a total of 5 (at least!) Grey Whales.

PS - The large sea coast rock at Sharp Point (?) to the North of Agate Beach looks great for Peregrines.

DATE: 29 May 1987

We packed up camp at Patrick's Point State Park. In the morning we heard baby crows calling for food. Saw adult crows foraging, too. Chipmunks also foraging in camp. We went to Trinidad Harbor, then hiked around to the west side of Trinidad Head. Sat down on the point above the separate but steepest cliffs of the head. Watched many gulls coming and going. Pelagic Cormorants were busy with nest building (or repairing?) activity. Seals & Sea Lions in ocean and on a few of the offshore rocks. I think I saw a flock of about 12 Tufted Puffins heading seaward. The weather was beautifully clear & sunny. We were treated to a clear view of a Harbor Porpoise apparently foraging off Trinidad Head. It was rather uniform dark in back color and on the sides. Had a short snout. It came up and would break the water surface a couple times with its head & back and then disappear - only to resurface at the same area a couple

Doug Bell

DATE: May 28, 1987

Other Birds at Trinidad Head:
[R]ufous-sided Towhee
[B]rown-headed Cowbird
[W]rentit
[S]ong Sparrows

minutes later. After Trinidad we drove south on 101. Drove out Cannibal Road from Loleta, CA to the mouth of the Eel River. Rough surf there, reminiscent of most Oregon Harbors. Great Egrets, a few Cormorants foraging (Double-crested). Up to 5 Red-~~thro~~ throated Loons were foraging in the river. They already had their grayish heads! From the Eel River we went back to Loleta, then on thru Ferndale and headed out the road to Petrolia. The cliffs just outside Ferndale (on Sugarloaf Mtn.) resemble the Scotia Bluffs and look like they should have Peregrines. We stopped along the Petrolia Road before it gets into Capetown, at a forested slope. Saw Olive-sided Flycatchers, Bushtits, Purple Finches singing ~~profou~~ profusely, Song Sparrows, Violet Green Swallows. Savannah Sparrows also along the way. When we got to Cape Mendocino we stopped in at the Russ Ranch and asked for permission to camp and shoot. Set up camp at the same spot, on the first grass shelf, about 1/4 mi South of Sugarloaf Rock. It was getting pretty late, but we hiked out to the spot just east of Sugarloaf. Sat and watched the rock - many, many nesting Pelagic & Brandt's Cormorants (Blue display pouches), Western Gulls, some Double Crested Cormorants (?), Common Murres, Pigeon Guillemots, and 2! Tufted Puffins. We watched the rock for at least an hour. Most birds on eggs. No signs of Peregrines. Hiked up to abandoned Light House. American Goldfinches, Lazuli Buntings, violet-green

Date: May 28, 1987

swallows around. Just North of the cape the landward beach is loaded with at least a 100 Steller's Sea Lions. ~~In~~ fact we really nearly stepped on a single animal while walking the beach just south of this. Weather is overcast, but became very calm. Forgot to mention - Brewer's Blackbirds, Cliff-Swallows and Vaux's Swifts at Mr. Russ's House.

DATE: May 29, 1987

Rain during the night and early morning. Cold & misty. Around 9:30 I went out gull shooting. Got 4 birds (DAB 144-147). Unfortunately I lost at least 2 additional birds into the sea that flew-out too far before crashing. Shoot!

I prepared the birds, at 13:00 we packed up camp (still raining), barely made it out with the car, then headed home.

FIELD NOTES Doug Bell

LOCATION: Alcatraz Island, S.F. Co., Calif.
DATE: 2 June 1987
TIME: 9:50

TIDE: Low (incoming?) Rock ~~[illegible]~~ 1.2 m exposed.
WEATHER: Calm, sunny. Hot.

At blind on cistern with Julia Smith. Chicks of up to 2 weeks of age seen at nests on territory 2, 5, 19, 28
The amount of long calling is incredible; the general level of movement and activity is very high. The randy ♂ gull with silver/yellow band combination is moving about territory 29. 10:05 - Colony. 33 gulls on perimeter, 8 on platform.
10:12 - Pair 19 - ♀ shading chicks. ♂ not on territory. 10:13 - The yellow/silver ♂ is hanging out by nest 30 - ♀ there threatened with bill. ♂ from 26 chased him, but he is still on territory 30. Copulation on IB roof 10:35 - Pair 33, ~~♀ banded,~~ ♂ ♀ banded - silver, left leg. ♂ on eggs/chicks
10:37 - Randy ♂ tried getting on ♀ 30. 10:40 - ♂ from 31 attacked randy ♂, who stood his ground, both did aggressive upright.
10:47 - Nest exchange of pair 33, ♀ for ♂ - ♀ now on nest.
36 gulls on perimeter; 9 on platform. Between roughly 11:15 and 13:30 we trapped a pair of ~~of~~ gulls off their 3-egg nest (DAB 148, 149).
14:13 Colony watching. Wind has picked up - strong. Most gulls shading, brooding young.

FIELD NOTES Doug Bell

Location: Alcatraz I., SF Co., Calif.
Date: 3 June 1987
Time: 8:40

Tide: Low, incoming; rock 0.70m exposed
Weather: Moderate wind, fog, 1.5mi visibility

On cistern in blind, recording gulls. 35 gulls on perimeter, 7 on platform (8:44). Recorded gr. 8:45 - 9:45. During that time much activity, long calling, chases. Observed 5 feedings - all fish - at least 2 of those sculpins. Also heard one copulation and saw another on the cliff. 9:52 - 26 gulls on perimeter, 8 on platform - watch colony. 10:00 - 10:10 recording gulls: Copulation by pair behind territory 10; attempted Rape on sitting ♀ 15. Chased off by neighboring ♂. Attempted copulation by pair on guard tower. 10:15 - Pair 3 - ♂ brood, ♀ standby. after begin ♀ took off. This pair had been feeding their young just previously. 10:17 - copulation heard, but not seen. Count feed - pair 19 - large fish. 10:27 - Colony. 28 perimeter; 10 platform 10:29 - Randy ♂ (silver, yellow) at nest 33. Chick feed on IB roof → fish. Copulation on Powerhouse roof. Randy male on platform head-tossing a ♀ (origin?) He then went and did chase to a banded ♀. The ♀ banded w/ silver on left leg. Randy ♂ also left leg. 10:39 - Pair 28. But, pair 3 nearing, feeding chicks fish.

FIELD NOTES Doug Bell

LOCATION: Tomales Point, Point Reyes National Seashore,
Marin Co., Calif.

DATE: June 5, 1987

With Dwight Harvey + Fred Sheldon, collecting gulls on the beach. Walked out from ranch houses at end of road north along Tomales Point. Went down to the beach just north of McCleur's Beach. Foggy at first, but the weather improved quickly. Sat at point of rocks between the two beaches - excellent tide pools. Shot gulls (DAB 150-159). Good Hunting.

June 8, 1987

Left Berkeley 2:00 PM, drove north on Highway 101. Arrived at Squaw Rock (just so. of Hopland, CA) [Mendocino Co.] on 101 at 4:10 PM. No peregrines on the rock, but after a short wait I saw one flapping across the rock. It disappeared behind it, then started soaring up. It looked like the ♀ (ad? - bad light). A smaller bird appeared - it came from above, stooped on it. Both birds soaring. The smaller one (♂) is an imm. Watched it soar above the immediate area in lazy circles and at alternating height. Streaked breast - brownish back. It soared around for at least 10 min, then did a long shallow stoop back to the rock, but first it stooped on a couple vultures flying in front of the rock. Gorgeous. The ravens have fledged, too. Saw 4 young in a tree across the highway. Adult fed. Arrived at Holmes, CA, [Humboldt Co.] Eel River site around 7:30 PM. Overcast, almost drizzly. Scoped out the rock. Saw one large imm. peregrine sitting on a great snag at top of left cliff face. She has a thick, dark cap, dark eyes, heavily streaked breast. Dark back. Bluish cere, and possibly yellow feet. Watched her for 15 min. Camped on the Eel River. Pair of ospreys on river. Ravens abound. Couple ♀ Common Mergansers.

June 9, 1987

7:00 AM - At camp on Eel River. Heard one wail of a peregrine from the cliff; but rather overcast, low clouds, poor visibility. Left area at 8:15 AM. Arrived at Scotia Bluffs, Eel River at 8:30 AM. Watched cliffs for an hour. Saw at least 3 Ospreys, 2 Red-tails (all at one time or

June 9, 1987 - con't

another sitting on snags along the bluffs). Saw an adult peregrine (♂) only briefly - it circled above the central flat bluff, flapping. Landed in a large tree. I then simply lost site of it. Other birds: common mergansers (3) (♀'s) - white wing squares, karrr-croaks. Great-blue Herons, Black-crowned night herons, Turkey Vultures. Calif. Quail. Might have heard peregrine wailing at a couple times. 9:30 AM - observation at Scotia Bluffs ended. Visibility was OK below the clouds, but clouds were in the bluffs. Clearing. 11:00-11:56 AM - went to the west-facing bluffs along Sugarloaf Mountain on outside of Ferndale CA. Talked to landowner - Les Silva. Said falcons used to be around - ate his pigeons. Now only Vultures & Red-tails in cliffs. I walked up to them - confirmed - loud, protesting red-tail. But a couple good ledges! Met various people at HSU, then headed north. Went out to beach at Humboldt Lagoons State Park. Beautiful rock at Sharp Point, but no gulls and apparently no falcons (I was about 1 mile away though. Camped on Split Rock, off Alder Camp Road, Del Norte Co., CA. Weather cleared, calm, sunny. 7/8 moon too. No falcons, but I did see a couple ospreys (one carrying fish). Lots of Band-tailed Pigeons on the coast here - flying up and down the coastal escarpments. Song Sparrows, Barn & Cliff Swallows + Vaux's Swifts at Split Rock. About a mile-and-a-half north of Split Rock is a dome shaped sea rock (White Rock). Loaded w/ guano - many cormorants & murres. Few Gulls. Only a couple

June 9 - con't.
pelicans & imm. gulls wandered past to shore below split rock.
June 10, 1987.
Up late (7:00 Am). Bad allergy attack from all the pollen on grasses. Never seen it so bad - grass halms "smoking" with pollens. Packed up tent - headed north on 101. Good rocks at False Klamath Cove. Largest concentration of gulls bw. Trinidad & Crescent City for sure. Even looks like a potential collecting ground if one gets out on the beach early or late enough. NPS foot path around cape - but best approach would be from beaches just north of the rocks. Footsteps Rock just north of False Klamath Cove is a huge rock - peregrine potential! In Crescent City I tried to contact the Game Warden (Don Gustinaue) and Dept. Public Works (Mr. Brown) to get permission to shoot at the dump. No luck w/ the Game Warden. The dump is being run by Klamath Disposal services. Spent the afternoon on the bluffs of Crescent City; the weather cleared, sunny and windy. About 20 gulls nesting on a close off-shore rock. Tried recording gulls first at the Bay where a creek empties into it. Saw one Glaucous-winged Gull out of about 60 Western. Several Pelicans & a couple Bonaparte Gulls, Caspian Terns & . Then tried recording at the harbor with limited success. Saw Kingfisher & Red-throated Loon. Finally tried at the creek outlet at the ocean beach just north of the city's bluffs. No real luck.

FIELD NOTES Doug Bell

June 11, 1987

Went out to Crescent City Dump (off Old Mill Rd), Del Norte Co, Calif. to shoot gulls. Shot 5 gulls with 9 shots - hit one twice, missed one twice (DAB 160-164). Remained at the dump to prepare them. Shot around 10:30 - 11:30 AM. Finished all preps at 16:45. Dump closes at 18:00 (close!). Dropped specimens off at Del Norte Ice Co. The dump has lots of birds: hoards of gulls, crows, ravens, many turkey vultures, barn swallows, tree swallows, gold finches (lesser). One downy woodpecker. Red-shouldered Hawk, screaming red-tailed hawks. Probably saw about 3 Glaucous-winged at the dump (imm. & sub-adults). Between 19:45 and 21:15 I walked out over Pt. Saint George. Beautiful view of Castle Rock. Thousands of sea-birds - all coming & going at once. Countless Common Murres blanket portions of the rock. Cormorants - Pelagics dot the rocks & cliffs; Brandt's occuppy patches of flatter areas, and I think Double-Crested can also be seen. There are hundreds of Western Gulls. Off to the south there was a feeding flock ~ frenzy of ~~to~~ a couple hundred gulls, many cormorants & several pelicans (brown). The birds were roving over the water - dunking their heads and ~~play~~ moving on to the next spot like one gigantic moving carpet. Over the course of an hour the frenzy moved south about a kilometer. Many birds were feeding in the ocean between Castle Rock and the shore. Bands of Cassin's Auklets, Common Murres, and Rhinocerous Auklets could be seen. The Rhino auklets had

June 11, 1987 - con't
dark backs, white bellys, orangeish bills, and a light, nobby cere. They also had what appeared to be white ear & crown plumes. Tufted Puffins were visible standing in front of their burrows and as ~~of~~ the dim of darkness grew ever more puffins appeared at their burrows. It also looked as if some gulls were purposefully waiting at the entrance to burrows. I first counted 23 visible puffins, but that increased to 49 by the time I left that spot. Went out to the point. Calm water, but every so often a large wave came crashing in. Oystercatchers & pigeon guillemots on the rocks. A number of gulls resting out there, were surprised by my appearance. Saw one definite sub-adult Glaucous-wing and one adult glaucous-wing. It seems as if there are fewer glaucous-winged Gulls this year at Crescent City than in the past 2 years. Almost got cut off at the point by the tide. There was a bird calling in the thick grass/swampy areas of the bluffs - it began each warble with a ka-chink ----. Marsh Wren?

June 12, 1987.
Was out at the Crescent City Dumps at 11:30 to shoot gulls. Shot 5 on 5 shots (DAB 165-169) around 11:45-12:15. Prepared all 5 by 16:45. Getting better at it. In the afternoon an adult Coopers paid a visit. I was engulfed in a gull when I heard a scream. Looked up to see a Coopers connecting with a starling. The coopers quickly made off with

June 12, 1987 - con't
the still struggling bird to a low pine tree. The hawk had caught the starling in a rising dash. Quite nice. At 18:10 I began driving north on 101 - direction Oregon. Seemingly good spots for future collecting: North Indian Road off 101, about 2 mi. So. of the Oregon/Cal. boarder. There are two large rocks here, one of which might be called Prince Island. Adjacent to the Indian Cemetary the beach looks rather secluded - only a couple houses nearby. From my angle I counted 110 gull nests (Western) on the large island. Many Pelicans and Cormorants too. Moving up into Oregon - potential shooting spots would be Harris Beach & Pistol River. Lots of offshore gull nesting nearby. Cape Sebastian is a bit too wild for gulls. Gold Beach is a large harbor on the Rogue River - seems to have gulls in it, but no real nest sites close by. Camped at Humbug Mtn. State Park.

June 13, 1987 Saturday

Hiked up the beach at Humbug Mtn. St. Pk. Foggy at first. A number of gulls at the creek mouth. As the fog lifted more several off-shore rocks were revealed. At this area there are possibly 6 rocks suitable for nesting seabirds. Loads of Murres & Cormorants & gulls visible on them. Several rocky intertidal areas btw. here & Port Orford (6 mi to the north). The beach just north of Humbug beach seems isolated enough to shoot at. A couple hundred gulls were in a feeding frenzy just off the point. Excellent area. Talked to the parks people Mr. Lea, assit. manager. No

Bob McKenzie
PO Box 187
Port Orford, Or
97465

332-3384

June 13 - cont

of shooting, but very helpful. Went up to Port Orford, a pier in the harbor has a huge crane which lowers all fishing boats into the water. Otherwise the boat are kept up on the pier. A deckhand for the Moxie (crabber) said I could go out w/ him & the skipper tomorrow at 5:30AM to shoot gulls, if it wasn't too windy. (as it is today - gale force winds!). Spent rest of the day bird watching. Garrison Beach Wayside: Wrentits; Rufous hummers, Western Gulls, Robins, Barn Swallows. Harbor of Port Orford: pigeon guillemots, ~~Red-throated Loon~~ Common Loon Common Murres*, Common Scoters. Humbug Mtn: Swainsons Thrush, Black-headed Grosbeak, Western Tanager!, Barn & Cliff Swallows, Steller Jays, Ravens. Song Sparrows. At swampy lake in Port Orford saw real nice Yellowthroat, Red-Wings, Kingfisher, Tree Swallows

June 14, 1987 - Sunday.

No go with the boat. Pete Barrington (Moxie) couldn't go out because the wind was really blowing. He suggested I try Don Andersen's Boat. Thought Don would be up at the Cafe. Went there, no go. But, met a rancher, Bob McKenzie, who said I could shoot on his property at mouth of Elk River, about ~~2~~ 4 mi. North of Port Orford & 3 mi South of Cape Blanco. Went out there. Lots of gulls on the river bathing. Also Ravens, Osprey, Kildeer, Tree Swallows, Barn & Rough-winged Swallows. Shot 5 gulls Between 10:00 AM & 11:30AM. (DAB 170-174). I was shooting from a river bar, not actually on the beach. Dunes to the west of the river.

8 shots - 5 birds
(2 misses at one bird
2 hits to drop one bird
4 birds each one shot)

June 15, 1987 (Monday).

Went back out to the McKenzie Ranch to shoot gulls. Went down to the Elk River, at the bar near the mouth of the river (3 mi. S. Cape Blanco, Curry Co., Oregon). At around 12:30 there were roughly 200 gulls bathing & resting on the bank of the river south of me. Many adults wandering in along the beach from the north & west (there are 5 large offshore rocks here; the rocks are probably 3 mi. out in the ocean). Couldn't hit the side of a barn today. Shot at first gull when it came in to eat bait. Hit it on ground, but it started up again. Fired twice total (DAB 175). Next bird hit & dropped with one shot (DAB 176). Then fired off 5 more shots, hit 2 birds, but they kept flying, although one flew away going in erratic circles & throwing up. Finally shot one more bird with one shot (DAB 177). Caspian Terns (4) seen today over the river. Song Sparrow nest building. Brown-headed Cowbird. Crows & Ravens. While talking to Bob McKenzie at the ranch we saw spouts & backs of several whales (grey) heading north. Some were about halfway between shore & offshore rocks (1.5 mi.), others were in closer. Bob McKenzie's son, who runs the sheep operation, is Scott. Drove into Coos Bay, camped at Sunset Bay State Park.

June 16, 1987 (Tues).

Raining. Sunset Bay is a beautiful inlet. About 30 gulls were milling about the creek outlet - all adults (≈15)

FIELD NOTES

Doug Bell

June 16, 1987 - con't

were good Westerns. Drove to the Oregon Institute of Marine Biology (Charleston). Talked with the director, Paul Rudi, about using facilities, etc. $10.00 a night to stay here. Space to do gulls, walk-in freezer. It's a wonderful establishment! Rudi said a fellow OIMB Prof., Carleton, gave a retirement seminar in honor of Ralph Smith at Berkeley. Anyway, met Jan Hoddard, who teaches Marine Birds/Mammals & wales at the Institute ½-time. She says this area is southernmost extension of Glaucous-winged Gull. Has a pure bird nesting at the lighthouse. We'll check these out tomorrow. At the Breakfast Barn in Charleston I met a young fisherman, who agreed to take me out in his boat, the Seagull, this afternoon to shoot gulls on Coos Bay. Weather is clearing by noon. Went in to Coos Bay see about getting my tank filled w/ liq. N_2, only way to do it is in Portland, or have Coos Bay Welder Supply send the tank up to Eugene overnight. Will probably do the latter, as the tank is down ~2/3 (after nearly 1 mo., 10 L dewar). From 14:30 to 16:30 was out with Dino Roleson on the Seagull, in Coos Bay near the jetty and coast guard tower, shooting gulls. It wasn't easy, as the boat is small (~17 ft), can only shoot in limited space. Gulls also uncooperative. Got 7 gulls (all good Westerns) on 9 shots (DAB 178-184). There was one good ad. Glaucous-winged, and at least a hybrid, which I wanted to get but couldn't. Many imm. + sub-ad Glaucous-winged Gulls. Saw a few Brown Pelicans, Common Murres + Pigeon Guillemots.

(Jerry)

Field Notes — Doug Bell

June 17, 1987

15:30 - At Charleston Harbor bridge : Gull Survey:

Imm. - WG.	Imm. - GWG	Imm. - Hyb.	Sub Ads. 2nd WG	2nd GWG	2nd H	3rd WG	3rd GWG	3rd H	4th & Ad WG	4th & Ad GWG	4th & Ad H
𝍸 𝍸 𝍸 I	I			II		𝍸 I			II		

16:26 - At Northwest Charleston Harbor breakwater / Coast Guard Reserv
16:51

Imm. - WG.	Imm. - GWG	Imm. - Hyb.	Sub Ads. 2nd WG	2nd GWG	2nd H	3rd WG	3rd GWG	3rd H	4th & Ad WG	4th & Ad GWG	4th & Ad H
𝍸 𝍸 I	𝍸	II	𝍸	I	I	III			𝍸 II 𝍸 𝍸 𝍸	I	II

18:37 - at Cape Arago St. Park ; lookout point on cape - view of South to
19:20
Bandon, OR (28 mi. Away). Birds coming from South, headed North.

Imm. - WG.	Imm. - GWG	Imm. - Hyb.	Sub Ads. 2nd WG	2nd GWG	2nd H	3rd WG	3rd GWG	3rd H	4th & Ad WG	4th & Ad GWG	4th & Ad H
IIII			I		II	𝍸			𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 I	I	

June 18, 1987

At Gregory Point, Cape Arago Lighthouse, US Coast Guard Reservation, colony of ~ 150 nests of gulls. Quick survey count: 109 Western Gull, 9 Hybrids, w/ at least 2 very light birds - almost Glaucous-winged in appearance. Came out w/ Jan Hoddard. She said ~~Off~~ Chief Petty Officer Sigfried is the one to contact for key. Also nesting out here are: ~~Cormorants~~ - Brandt's, Double-crested & Pelagic. Saw 3 Tufted puffins. Kingfishers Did some recording. Went down to Wind Generating Plant (Windmills) off Seven Devils Road, Whiskey Run Flat. Good beach - wide open, many imm. gulls. Towards dusk several adults (WG) down to creek to drink. Recorded Swainson's Thrushes on Seven Devils

June 19, 1987

08:30 On Cape Arago Lighthouse, USCG, Gregory Point. Observing gull colony. Found the 2 very light-backed gulls, they have a nest on the north-facing ~~p~~ side of the point, about 1/2-way out, and on the cliff-face, ca. 2 m down from the top. A mated pair! Both birds have very light backs (lighter than WG) and their primaries are nearly the same shade as the mantle, possibly ~~even~~ slightly darker than the mantle. It's hard to see, but there appears to be only dark irides (≅ pupil color). Too far for eye-rings. The ♂ may have slightly lighter irides than the ♀. These 2 birds really look like Glaucous-winged Gulls. They have 2 chicks, about 1.8 weeks old, on the nest. At other nests there are a number of 2-3 week old chicks. Also a few nests with eggs still, but these are in the minority. Most WG here seem to have irises which ~~appear~~ gray-greenish, or slate, rather than the yellowish of further south. 0900 - Observed at least 3 very GWG-types - the mated pair, & another which has some slight shading to its tail. Also saw a sub-adult w/ light shoulders + wings, slightly grayer mantle, and brownish, but hybrid-like primary tips. Eyering was yellowish, irides dark & even pigmented. Observing gulls on bridge: 18 good WG, 2 gulls w/ light P° = back. One bird seen clearly; irides like WG here → pearl gray/green; eyering was pink/orange, however, and 3 birds with hybrid P°-tips (darker than mantle, but still lighter than WG). 10:03 - 2 light-backed/primaried gulls flew to bridge - both landed, sit next to one another. I ~~think~~ this is a 2nd pair, which might have had a failed nest. Perhaps these were

June 19, 1987 - con't.

the 2 Jan & I saw flying about so much yesterday. From 10:15 - 10:45 recorded gull voices. Not bad success. Tried trapping but didn't succeed, the one ♀ I had go in on her eggs got out because the trap door jammed. From about 12:15 to 15:00 drove north to Newport. Along the way stopped at turn out just north of Sea Lion Caves, Oregon. Loads of gulls nesting on slopes below. Also saw a couple Tufted Puffins tooling around. Saw one good Glaucous-winged appearing gull. At Newport I stopped in at Oregon St. Univ. Hatfield Marine Science Center. Got a room & a bunk for $4.00 a night. Met Don MacKenzie and his wife Pat (Lewis & Clark College Portland). Very nice, helpful. It was about 17:00, we went out to the dump. Asked a fellow by the name of Russ if we could shoot there, no problem. I dropped 2 glaucous-wing type gulls (DAB 185, 186). The place is called the Agate Beach Refuse Dump, just off Highway 101, about 4.5 mi. N of the Yaquina Bay Bridge & Newport, Oregon (Lincoln Co.). After getting the 2 birds we drove on to Yaquina Head & the Lighthouse. Some definite Glaucous-winged Gull appearing types visible, and lots of hybrids.

June 20, 1987

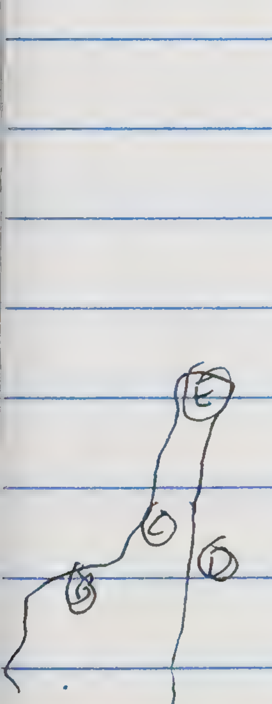
Went to the dump around 06:15. Shot 3 birds on 4 shots by 07:00. Think I wounded one. (DAB 187-189). Towards dusk went back to the ~~New~~ Agate Beach Refuse Dump and shot 2 birds on 4 shots (DAB 190, 191) + found one dead gull which I must have hit this morning.

FIELD NOTES   Doug Bell

June 21, 1987

At 06:30, shot 2 gulls at Agate Beach Sanitary Landfill (DAB 192, 193). Spent all day doing my birds. 18:30 - at the OSU Marine Science Center Dock to the WECOMA. Based on primary pigmentation, it looks like I see one WG pair on boat dock, one WG sitting on a nest on pillings, a WG + Hybrid standing next to each other on pillings, and 8 WG; 1 sub ad. GWG, one Ad GWG, and one Hybrid standing individually on pillings in this bay area. 19:15 - On access road to Yaquina Lighthouse (BLM) - A nest of probable GWG along bluff, south of the road as the road goes east → west. Primaries = back color (both light). Bird sitting on nest is good GWG-Type: dark irides (no pupil-iris contrast), pinkish eyering. Possible mate to the incubating bird soaring about above the nest, chasing other gulls (This bird also looks "GWG").

19:41 - at Yaquina Head, on small rock just south of light: 18 WG, 2 Hybrids, 1 GWG; latter 3 sitting on nests; total 9 nests visible, some birds on eggs, some w/ chicks. One sitting hybrid bird has contrasting pupil-iris & yellowish eye ring. On south east slope of point & minor bluff visible from southern walkway: WG Pairs - 6, One hybrid pair seen copulating; one hybrid on nest incubating, another hybrid standing next to 3 chicks in nest, and 6 WG sitting on nests with mate not visible. One hybrid/GWG (?) sitting - has lite primaries and no-contrast eye and orangish eye ring. The above hybrid on nest w/ 3 chicks has slightly contrasting iris/pupil & yellowish eye ring. On Point in front of light: 5 nests (A) 1 WG x WG (yellow eye rings, light irides).



(B) 1 WG x WG (yellow ring, light iris ♀, yellow ring, pigmented iris ♂ - but still contrasts; this ♂ primaries a bit lighter [both birds have light p° so are ♀'s]); (C) 1 WG x WG. ♂ & ♀ have darker irises still contrast, ♀ lighter p° tips. (D) Both good WG (E) ♂ good WG

DON & PAT MCKENZIE

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OR

BIOLOGY DEPT.

LEWIS & CLARK COLLEGE

PORTLAND OR 97219 phone (503) 244-6161 –

BIO. EX.

June 21, 1987 - cont

On west offshore rock at Yaquina Head - 30 WG x WG pairs, one hybrid. This is the large rock just west of the lighthouse - it also has the large colony of Murres & Brandt's & Pelagic Cormorants.

June 22, 1987

14:00-15:00 at Yaquina Head, Lincoln Co., Oregon. Noting gull types:

- Observation Platform (South East): Shore: WG_p lt/yellow ; WG_p ♀ lt/yellow ♂ pigm/yellow ; WG_p lt/yellow.
- SE offshore rock: 1 hybrid head tossing to WG
  WG : 15 birds Hybrids : 2
- SE point (eastern face) : WG - 17 ; Hybrids 2 = both have primaries slightly lighter than WG, and one has pigmt. iris/yellow eyering; other has light iris/yellow eye ring.
- Rock off SE Point : WG 14 ; Hyb : 1
- Head itself : WG_p lt/yellow but both birds have primary tips lighter (esp. following-edge vanes) than WG.
  3 WG_p lt/yellow.
- Western most offshore rock : WG : 51 Hybrids : 5

16:15 : Depoe Bay, Lincoln Co., Oregon. At fish rocks
  14 WG ; 1 Hyb - lower ½ of irides dark pigmt & yellow eyering. Lighter p° tips.
  1 marked WG (red on rump)
  1 GWG seen flying nearby

16:38 : Siletz Bay (nr. Lincoln city, Lincoln Co, Oregon). - 2 GWG adults alarming & chasing ad. Bald Eagle. The eagle had a fish in its bill, flew at first

June 22, 1987 - con't

up from mud flats, then drifted over towards me on 101, also WG attacking. The eagle then flew very low (<50') over the highway, soared up over hills, got up to about 250' in height, flew back over mud flats & bay, hover-flapped a bit at lower heights, 2 false stoops, then wandered back to me on 101, soared high up over hills.

18:30 - Went out to Nestucca Spit State Park, Tillamook Co, Oregon. Walked about 1.5 mi down spit. Much beach activity - motorcycles (2), offroads (2), 4-WD's (1), jogger.

"3 for 4" Nevertheless collected 3 Western Gulls (DAB 194-196). Counted 29 good Western Gulls as they flew by the dunes. These birds look like good WG's! Also saw Marsh Hawk. Through by 20:05. Went to the campground along Netarts Bay, Tillamook Co., Oregon. Neat birds here: Crows, Great-blue Herons, Swainson's Thrushes, Song Sparrows, Golden-crowned Kinglets foraging, nest Downy Woodpeckers, Robins, Chestnut-backed Chickadees, Wilsons Warbler, Olive-sided Flycatcher.

June 23, 1987.

Processed birds from yesterday. At 13:30 arrived at Netarts Bay Marina. Netarts Bay seems to have scattered gulls, mostly imm. foraging on it. But at the Marina got a close up view of a perfect Glaucous-winged Gull - pink eyering, pigmented iris, light primary tips. It chased a 3rd yr GWG around the marina - even ignoring other juv. gulls nearby (mostly WG's) to chase this one bird. Another GWG, possibly the mate?, also at the Marina. Several adult WG's out

June 23, 1987 con't

on the bay. Tried to noose the GWG (bread as bait, but no luck). Went on to Oceanside, Oregon. Saw another GWG, and watched it flying all the way out to the first large rock of Three Arches Natl. Wild. Refuge, just so. of Cape Meares. There are literally thousands upon thousands of birds out on those rocks: Murres, Cormorants + Gulls visible from shore. At about 15:30 I proceeded on to Cape Meares. Went out to the lighthouse. Sunny but very windy day. Saw several Tufted Puffins soaring about the steep North face cliffs of the cape. Again, on the offshore rocks "uncountable" numbers of Common Murres nesting. Also saw another GWG fly over, and many WG's. Drove down to Tillamook Spit, and walked from the parking lot about 1½ miles north along spit to the start of the hills and forest. Positioned myself along the west dune-face and waited for gulls. Collected "3 for 3" Western Gulls (DAB 197-199), ~~Then from~~ at around 17:20. After taking care of these I counted "flybys". The wind was very strong + out of the Northwest, so gulls were moving at dune height northerly, into the wind. From 18:00-18:30 counted 97 adults WG's, 14 juv + imm WG's, and 4 juv GWG's. Also saw Double-crested Cormorants, Brown-headed Cowbirds, Bonaparte's Gulls, American Goldfinches, Olive-sided flycatchers, White-crowned Sparrows, Flicker, Marsh Harrier carrying vole in foot; on the bay side saw 2 snowy plovers, 2 western sandpipers, mallards, Caspian Terns.

6-25-87 Chinook, WA Fish Plant

Primary - Iris - Eyering

D = dark
L = Light

~~PF~~ pigmtd.
Y = Yellow

P = pink
F = Flesh

WG. D/L/Y D/L/Y
D/L/Y D/L/Y
D/L/Y D/L/Y

GWG L/Dk./P

H L/L/F

	D/L/Y	D/D/Y	D/L/F	L/D/Y	L/D/Y	L/L/F	L/D/F	L/L/P	L/D/F
WG	~~||||~~ ||	~~||||~~	|						
Hyb				|	|		|	||	|||
GWG								||||	||

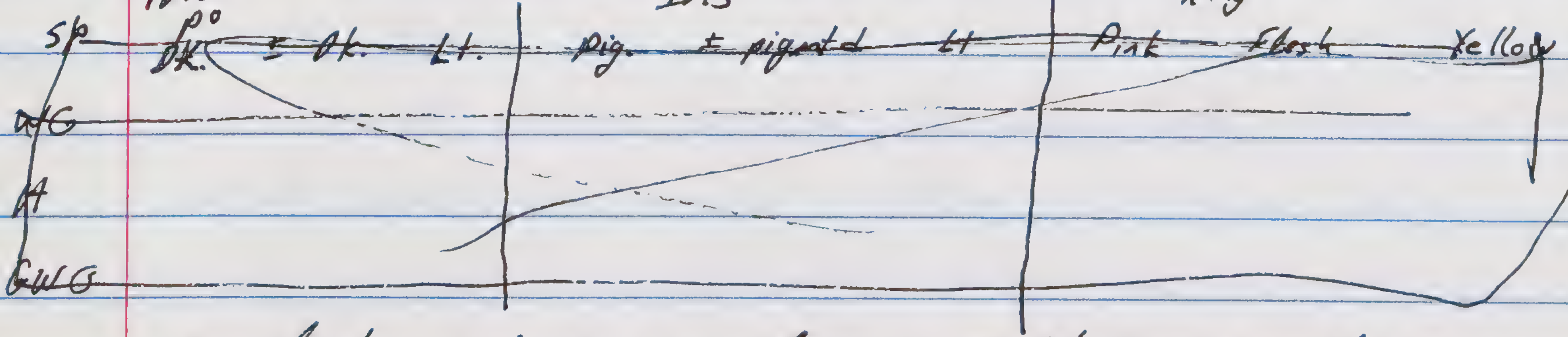
 Doug Bell

June 24, 1987

Today is sunny, warm, very strong NW winds. About 3 good Glaucous-winged Gulls seen in Tillamook Bay (Lincoln Co., Oregon) near Garibaldi harbor. Two adult Glaucous-winged Gulls and several sub-adults near Wheeler, on Nehalem Bay. 2 other GWG's seen flying along the bay here (15:00). 15:30 - at the 2 offshore rocks about 1 mi. S of Haystack Rock at Cannon Beach counted 49 WG's and 14 WG's on each rock, respectively. The lighting is bad, but they all look like good WG's. Many nests have large (2-3 wks) chicks. 15:50 - 16:35 at Cannon Beach. Surveyed 3 rocks: Haystack + 2 smaller ones just south of it: Haystack Rock: 144 Gulls on eastern + southern side: Saw a few w/ lighter primaries, possibly 2 GWG's. The other 2 smaller rocks had 14 + 13 gulls each. Of 25 gulls flying, 1 had light primaries. Rest WG. Over beach saw 1 GWG ad; couple imms.

June 25, 1987

11:30 - At Man O War Fish Plant, Chinook, WA.
12:20



see chart previous page for gull totals. Attempted recording here, but poor success. Checked in at the Chinook Harbor Master's hut. Mr. Glenn Eager, and Mr. Todd were there. Glenn recognized me from

June 25, 1987 con't.
last year. Said they could get me out to the island, but I couldn't go today as the wind was already picking up. Tides are uncooperative this year - low tide at the morning, when winds are lowest. Glenn told me to be at the dock at 8:00 am tomorrow.
Forgot to mention - went to the south jetty yesterday, and at parking lot D it looks possible to shoot out there, if need be. Saw lots of WG, GWGs + hybrids, plus tons of cormorants on old pilings. Back to the 25th - kind of a slow day - drove into Astoria, Or; then back and up to Willapa Bay Natl. Wildlife Refuge. Met Jim + Judy Atkinson again, dropped specimens off in their freezer. Then went up to Long Beach, met some Germans (Klemmer) aus Hannover. Then went out to the Cape Head Lighthouse just north of Ft. Canby State Park, WA. Very high winds. Six WG's, six GWG's and 1 Hybrid sailed past, going north into the wind. Tried recording Swainsons Thrushes and almost stepped over a deer in thick brush. It remained unconcerned.
June 26, 1987.
At Chinook Harbor (WA) at 8:00 am. Todd took me out to East Sand Island (Clatsop Co., Oregon). We landed on eastern point about 8:54. Low tide (-1) was at 6:47. I made 3 long trips with all my gear, had camp set up by 10:45. Ate, took a short nap. Around 11:45 went out recording gull noises. Walked first the southern beach perimeter from camp, then up on the

Field Notes   Doug Bell

June 26, 1987 - con't

dredging spills. It looks like there are fewer nests on the ~~south~~ beach (eastern end) than previously. About 1 nest for every 10 meters linear distance. The dredge spoils seem to have more nests - at least 24 on the east + southern perimeter (counted 64 flying gulls over this area). The grass is in many places almost waste high. Here in such areas there are fewer nests, if any. Tons of porcupine sign - tracks, scat. There really is no large tern colony any more, although I did count about 30 Caspian Terns resting on sands. Their former beach is covered in driftwood. The northeast corner, grassy flat area on the eastern end had about 144 gulls sitting and milling about - all potential nesters. The northern dredge perimeter had about ~~[illegible]~~ 64 gulls in residence. There might be some isolated nests here + there - at least 2 on the half-moon pillings. Also counted 59 Canada Geese in at least 10 family groups. Osprey flew overhead. Starlings, Crows + Barn Swallows in residence. Weather has been clear, sunny + windy so far. 17:00 - 18:40 - counted nests + banded ~~17:10~~ young along the northern driftwood + grassy space just west of campsite. This is along the middle portion of East Sand Island. The swath was about 100 m long and 20 m wide that was surveyed:

Nests:
2 Eggs : 1
3 Eggs : 1
2 E 1 Ch : 1
1 E 1 Ch. : 1
1 E 2 Ch. : 1
1 Chick : 6
2 Ch: 7
3 Ch: 8
?#Ch : 10

Banded: 956-10033 to 54 + 10099
WG: 33-38 +42-54 + 99
GWG: 39-41

June 26, 1987 - cont.

Towards dusk went out to the pilings and marshy area on northern shore. Got a beautiful view of a common scoter, on the mud, less than 20 m away, cleaning + preening itself. Brilliant orange bill, with almost a chevron-like black + white pattern on the cere. Little eyes - irises yellowish. Also saw about 35 Lesser Scaups (white sides, greenish heads).

June 27, 1987 -

Up late. Since it was low tide, I walked out to the tall channel marker + climbed up it. Fairly good view of the northern side of the island. From camp (trees - groups of small pines) ~~to~~ a event to about the thinnest portion of the island before it widens into a flat pancake head, counted: 246 nests. This area is mostly driftwood, low grass, irregular terraine. A smaller sub section of this had about 175 nests (150 m x 50). Frequencies of the birds here: WG: 25 GWG: 9 Hy: 11 (for those that were visible. There was also a gull nest in the tower - in a large metal box. Weather has turned poor - overcast, fog, light drizzle every now + then. Decided to attempt collecting on the beach w/in the pilings. On these piling 2 pairs of gulls are nesting: 2 light-tipped P° and one pair where the ♀ is good western, and the ♂ is light-tipped on the primaries. I believe I wound up collecting the ♂ from the former pair (actually had brownish P°) and the ♀ from the latter pair. Also collected 2 other gulls - a hybrid + another Western (Total: DAB 200-203). Towards dusk I went out to the marsh area again. Got a view of my banding area: counted 24 WG's ; 2 GWG's + 4 hybrids. Watched several flocks of lesser scaup as they came on shore to preen.

June 27, 1987 - cont.

They look so uncoordinated on land - making short quick steps and looking top-heavy. Song Sparrows abound on the island. Large flocks of Cormorants rest out on the sand banks at low tide - all that have flown over my head to date here have been Double-crested Cormorants.

June 28, 1987.

Of the pairs visible in the banding area, there are 9 WG x WG, 2 Hy x Hy and 1 GWG x GWG. More later. Other birds I have seen here on East Sand Island (Clatsop Co., Oregon; nr Chinnook, WA.) are: tree swallows, marsh harriers - saw a male on two days. May even have located possible nest site - in one of the willow thicket areas. The bird flew out of a grassy, yet clear ground area inbetween thickets and waste-high grass. This area on the south eastern end, near middle of the lower dredge-spill plateau. Possible bewick's wren. Also - Mallards, killdeer and today, 19 Brown Pelicans.

Went collecting in this area. I am trying to not overly disturb the nesting gulls - so I shoot from areas of the island that have few or no nests. This includes most of the dredge-spill area in the middle of the island and the higher-level of ~~dug~~ dredge-spill on the eastern end. By chance collected 2 GWG's and 1 WG (DAB 204-206). Spent most of day doing the gulls from today + yesterday. Towards evening I carried half my stuff to the drop point. Counted 169 upset gulls on the NE island corner; mostly in driftwood / beach habitat + grass. This is the area

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Port of Chinook
P.O. Box 185
Chinook, WA 98614
777-8797

Wayne Morris
Coast Oyster Co.; South Bend, WA.
875-5842

Mickey Rounds, Tokeland, WA.
267-3676

June 28, 1987 - cont

where the Caspian Tern Colony had been. Towards dusk I moved half my equipment to the drop point on NE corner of the island. Counted roughly 179 gulls in the air at once over this side of the island. About 85 gulls were in the air over the northern edge just west of NE corner, and between the pilings. Towards late dusk I attempted to move up the south island edge west, but disturbance was just too great. Over 280 - 340 gulls took to the air. Half again as many were on the ground. I estimate 350 gull nests over the middle portion of the island (between dredge spills & wider western end of the island. Recorded gull voices, and vocally called out gull types while scanning this area.

June 29, 1987.

Up at 05:00 hrs. Packed, moved stuff to drop point. Counted 111 gulls at this NE end of island (see above). Probably 2x as many actually there. Recorded some good long calls. Todd came out on the Chinnook harbor skiff and picked me up. Heavy Fog this day. After writing a short report for Glenn Eager (Chinook Harbor) went to Astoria, Or.; then back up to Willapa Bay. At South Bend, WA, asked about boats to get out to islands in Willapa Bay. Wayne Morris, of Coast Oyster Co. (875-5842) said he'd take me out tomorrow. Will meet him at 09:00.

June 30, 1987

Adult GWG ♀ at pier in South Bend - foraging at the cafes. Met Wayne Morris, they took me out to Pine Island in

June 30, 1987

09:30 - On Pine Island, Willapa Bay, WA.

WG 卌 卌 卌 卌 卌 卌 卌 卌 = 40

H 卌 卌 卌 卌

GWG 卌 卌 I

Pairing

♂ ♀	
WG x WG	卌 卌
WG x H	I
H x WG	I
GWG x H	
H x GWG	I
GWG x GWG	III
H x H	卌 II

Craig Codd
P.O Box 458
South Bend WA
98586

217
Eyering 5RP 6/4
Iris 10YR 7/2
Thick heavy graying 10YR 2/2
pigment throat
Very little background visible
upper 1/4

Bill 5Y 7/10

June 30, 1987 - con't
Willapa Bay, Pacific Co., WA. Rode out in an Evenrude speedboat with a 115 hp Suzuki Outboard. Quite Fast. Pine Island is very small (< 100' x 100') at high tide. It is located about mid-bay, closest to Bay Center (as opposed to South Bend). On approaching the island a herd of Harbor Seals were on a sand bank - probably more than 50, with many spotted pups. ~~Actually~~ Almost all the gull nests were on dry sand, but there is a small tussock hill of grass which hid a number of nesting gulls. From the eastern side I counted 162 birds, the frequencies of each gull type are on the previous page. There are probably ~150 gull nests. Many hybrids, several GWG's (seems as if there are fewer here than on the Columbia River. Also a couple Ring-billed Gulls, possibly nesting. The Oystermen say the island had been much larger, even just ~~200~~ 20 years ago. They also mentioned that they see more Bald Eagles around - about 4 live on the Bay, and owls nest in a light tower on the bay! Also mentioned that they spray the mud flats w/ Sevin to control shrimp. Anyway, I collected 6 gulls (between hrs 09:40 + 10:45.) (2 WG, 2 Hy, 2 GWG) DAB 207-212.

July 1, 1987

Drove out to Markham, WA., just past Ocean Spray Plant (first left after the plant), to go to Coast Oyster. Asked first Tim Morris (Mr. Wayne Morris' son), then he introduced me to MR. Mike Linn. They agreed to take me out to one of the islands in Grays Harbor. Real nice folks!

Goose Island July 1, 1987 Grays Harbor, WA

WG 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 |||

H 卌 卌 卌 卌 卌 卌 卌 卌 ||

GWG 卌 卌 卌

Coast Oyster Co., Inc.

Mike Linn
Star Rt Box 190
Aberdeen Wa. 98520
648 - 2222

Tim Morris

Whitcomb I., July 2, 1987 Grays Harbor, WA

		Totals
WG : 卌 卌 卌 卌 卌 |||	=	28
H : 卌 卌 卌 ||||	=	19
GWG : ||||	=	4
♂ ♀ WG x WG 卌 |	=	6
WG x H		
H x WG		
H x H 卌	=	5
H x GWG		
GWG x H		
GWG x GWG ||	=	2

July 1, 1987 - con't

They dropped ~~me~~ me off at 10:30, and said they'd pick me up in a half hour, so I really had to hussle. Was on Goose Island, it is about 250 yards long, but gulls aren't nesting all over it due to erosion of "upper beach" habitat through most of the center of the island. For the grassy south end & driftwood habitat there were probably about 300-400 gulls. Seems to be loads of hybrids. Pure Glaucous-winged gulls seem to nest in greater numbers in the grass areas as opposed to beach/driftwood. I noted the following frequency totals: Western Gull: 48; Hybrid: 37; Glaucous-winged Gull: 15. Collected 5 birds (DAB 213-217).

July 2, 1987

13:27 hrs - got a ride out to Whitcomb Island, Grays Harbor, Grays Harbor Co., Washington. As last year - 2 large colonies on the major rises of Whitcomb Island. Northern most one has fair amount of beach grass on it. From the south counted 174 gulls. The area is probably about 200 × 250 feet. Maybe 2× as many birds on north side. There seems to be a minor colony of 10-15 scattered pairs between the 2 major colonies. The island topography seems to have changed from last year, with higher sand dunes on S~~W~~ portion (the drop point). The SE colony has 82 birds visible - with 21 of them apparently "sitting" on eggs. Chicks of up to 2-3 weeks visible. Area of SE colony: ~~150~~ 125' × 50'; Most correct, the Northern colony is probably Δ, with rough dimensions of 200 × 250 × ~~300~~ feet. From due So. counted 210 gulls in the prime "grassy habitat". Another 28 gulls in the sand/driftwood habitat in front. Collected 4 birds (DAB 218-221).

FIELD NOTES

Doug Bell

July 3, 1987

12:30 AM - at Port of Olympia, Olympia, Washington. Set trap out over 3 egg nest. Two gull nests are on the mud flat, that has been diked off. The old flat area w/ several gull nests of the former years has been taken over for log piles at the port. This one nest I trapped off was easily accessible on foot, placed on the ground next to a piling. A second nest was up on a neighboring piling. Caught the ♀ (DAB 222). The other nest was also still on eggs. Several nests on Port Buildings' roof tops.. The nest I trapped was near the East Bay Marina. Also checked the old pier & small island off West Bay Drive. Of the pier nests - 2 still on eggs. Of the 7 visible island nests, 4 still on eggs.

July 5, 1987

Met Joe Galusha at Walla Walla Marine Station for the ride out to Protection Island. Weather was inclement. Rained heavy on the trip up from Seattle to Rosario Beach, Anacortes, WA - Rode out in the Boston Whaler around 15:30. Saw several Marbled Murrelets, White-winged Scoters, Heermann's Gulls! Pigeon ~~Guille Gui~~ ~~Guillemots~~ damn! Guillemots. Also many Rhinocerous Auklets. Rough water, too! At Protection Island about 17:00. Ate dinner. Saw ad. Bald Eagle at nest. Met Tom Lee, who is working on Northwest Crows. Sat with him overlooking the east spit - a very good Western Gull flew past! Tons of Glaucous-winged Gulls. Also American Goldfinches.

Went to the blind on east spit of the island to set up traps and record gulls. In a torquiose blind next to the large steel tank. Beautiful views of nesting gulls. One 3-egg nest within a yard of the blind.

Harry Porter
Oxford

Univ. of Wash.:

Life-history evolution in the Glaucous-winged Gull

Walter V. Reid

Chairperson: Prof. P. D. Boersma

Inst. for Environmental Studies &

Dept. of Zoology.

Univ. Microfilms

300 North Zeeb Road

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FIELD NOTES

Doug Bell

July 6, 1987

On Protection Island, Washington. Went out to the East Spit to attempt trapping. Had set the traps out on 2 nests last nite. Birds went in quickly. In the blind at about 08:45. today Caught a female off the first set (3 egg) - DAB 223. Then caught a male off second set (1 chick, 1 hatching egg, 1 egg) - DAB 224. Took chick (DAB 225). Then caught the female - mate to (DAB 224). Also did some recording of birds. Could not get the male from the first set, so I left at about 12:00 hrs. As I was leaving I saw what looked like a Good Western Gull ♂; only GWG's around him on territory about 70 yds due east of the blind. This would be the 2nd western-like gull I've seen. Then, about 110 yds due SE of the blind I saw another western-like ♂, paired with a possible hybrid. Finally, as I was walking down the road back to the boat basin I caught a glimpse of a Western-like bird in mantle, p°-tip, and beak color, yet it had dark irises and a pink eye-ring! Went back to camp - did the specimens. Caught a neat view of the two bald eagle chicks in the nest - small dark heads, short silvery cere & dark bills!

Towards evening I came back to the blind and caught the remaining male - the mate to DAB 223. This male is DAB 227.

July 7, 1987

In the blind at 08:45 on east spit. By 12:30 I had caught another pair of Glaucous-winged Gulls off a 3-egg clutch. (DAB 228-229). Also recorded gull voices, and made recordings of pigeon guillemots, oyster-catchers, and a Northwest Crow. In the evening Joe Galusha took me over to his study site up on the ~~sw~~ southern bluffs in a cul-de-sac. Gorgeous birds - many with darker primary tips - although Joe doesn't think there is any difference in primary-tip color frequencies between the bluff and the spit colonies. Saw 2 gulls with literally black primary

Doug Bell

tips, yet they had pink eye rings and dark irides (just as the Western-like birds down on the spit). One of the 2 was mated to a dark-primaried GWG. The other was incubating eggs, looked like a female. It had a GWG-faded-yellow bill, and this bird was mated to a darker primaried GWG. Saw another ~~dark~~ black-primaried gull loafing up on the road. And down by the cabin somewhat below Joe's study area we observed a black-tip primary bird w/western-like yellow bill. It had pigmented, greenish irides (like northern Oregon WG) and a orangeish eye-ring. Also saw a GWG with a brilliant orange-yellow bill. (at least 10YR 7/12). In the evening we went over to Bill and Suzie Sterling's house (US F+W caretakers of the island.

July 8, 1987

On Protection Island, Washington, still. Saw a few other land birds today: Winter Wren, Tree, Violet-green + Barn Swallow (just for the record); heard Rufous-sided Towhee, Marsh Harrier, House Finch, Song Sparrow, Savannah Sparrow, Brown-headed Cowbird, and, of course, seafowl and Ring-necked Pheasant. American Goldfinch.

Went to the East Spit - gathered up my equipment. Saw 2 Harlequin Ducks on the north shore. Went to the truck where Joe was working. Sat + watched birds. Soon discovered some interesting gulls! Very Western-like. In the area east of the first blind on stilts + north of the road first saw a ♂ WG (black primary tips, but somewhat faded; yellow eye-ring; little contrast btw. pupil + iris) paired with a ♀ GWG. Pair had 2 week old chicks. Then saw a pair of WG's choking and mewing + hanging out in the colony. ♂ of this pair had brownish primary tips, yellow eye ring and a contrasting iris (greenish) - pupil. The ♀ had jet black primary tips, and also a contrasting

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Walla Walla College
Marine Station
Caretaker

July 8, 1987 - cont.

iris-pupil. Again, the irides were greenish-yellow. All in all, good Westerns. Finally saw a ♀ Western Gull, with black primary tips, yellow eyering & yellow irides. Turns out she is banded - silver blue right leg, white-red left leg. Mated to a good Glaucous-winged Gull, which was also banded: right leg red/silver & left leg red. Pair of eggs in the nest. I trapped the female of this pair. Took some doing, but caught her just before we had to get ready to leave the island (DAB 230).

FIELD NOTES   DOUG BELL

LOCATION: Alcatraz Island; San Francisco Co., San Francisco Bay, Calif.

DATE: 13 Dec. 1987   WEATHER: clear, sunny; winds NE 20 mph

TIME: 13:23 – 16:00   TIDE: 3/4 m of rock exposed

At Blind on Cistern. Gulls are scattered throughout the entire Bay Area. No gulls on cistern, or any other nest sites when I arrived. However, at 13:28 2 birds landed on IB – ad. Western's. Note – at Fisherman's Wharf saw lots of gulls – Western, Glaucous-winged, Mew, California, Bonaparte's. Many Calif. & Mews gulls around SF.

13:29: 2 more WG on IB roof. All 4 birds w/in 3 yds of each other.

13:30: 5 gulls now on IB

13:33: 9 gulls on IB roof. One gull, upon landing, elicited Long Call from another bird. These 2 began alarm yelps and did an aggressive upright along side one another. A third bird joined in, but the newcomer was chased away by one of the birds

13:37 – All birds split. Killdeers (2) on IB roof. Flocks of DC Cormorants proceeding past Alcatraz. About 50 Western Grebes on bay west of island.

13:40 – Large mixed flock of gulls, cormorants, grebes on water west of island: quite spread out – nearly 300+ birds. Spent the ~~15:~~ next hour watching birds around the island.

15:25 – 7 WG on Cistern. Long call, one ♂ did aggressive upright at another ♂. ♀ joined first ♂. One chase on ground.

15:30 – One ♂ agg. upright directed against another ♂. Randy ♂ showed up!: silver/yellow bands on left leg.

15:34 – All birds away. Pair landed on IB, long called, then alarm yaps. 15:35: 6 birds on IB. 15:36 – 17 Gulls on IB, one pair landed, mewing, choked on IB at near edge. Of 17 gulls, one is a GWG. 15:37: 27 gulls now. Many drinking water. The pair from 15:36 is now ~~mewing~~ mewing together, ran over to cement boarder.

15:44: 63 gulls on IB, including one Herring Gull and 2 GWGs. More arriving.